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GenCore version 5.1.6
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OM protein - protein search, using sw model

August 26, 2005, 15:38:10 ; Search time 167 Seconds (without alignments) 42.929 Million cell updates/sec Run on:

US-10-663-215-5 74 1 YETFSKLIKIFQDH 14 Title: Perfect score: Sequence: BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

1612378 seqs, 512079187 residues Searched:

1612378 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	P02730 homo sapien	Q91ze7 rattus norv	P23562 rattus norv	P04919 mus musculu	Q991t5 mus musculu	P23347 rattus norv	P13808 mus musculu	P48746 oryctolagus	mus	8 n8	homo	ношо	raja	рошо	homo	ednne	cavi	homo	Q99654 homo sapien	homo	Q8jft9 brachydanio	Q7zzv6 brachydanio		Q90710 gallus gall	Q9trc8 bos taurus	Q9tuq1 bos taurus	Q9tuq0 bos taurus	Q9xsw5 bos taurus		Q7t1p6 raja erinac	Q6jrs1 oreochromis
	ID	B3AT HUMAN	Q912E7	B3AT RAT	B3AT_MOUSE	099LT5	B3A2 RAT	B3A2_MOUSE	B3A2_RABIT	Q7TPS4	Q9TU75	QGPJY3	Q8TAG3	Q7T1P5	Q9UEY4	Q9UEY5	Q6SJP2	B3A2_CAVPO	B3A2_HUMAN	099654	Q9UEY6	Q8JFT9 .	Q722V6	072237	090710	Q9TRC8	Q9TUQ1	ODITGO	Q9XSW5	Q9GKN5	Q7T1P6	Q6JRS1
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	Score	74	68	68	68	64	64	64	64	64	63	63	63	63	63	63	63	63	63	63	63	62	62	62	62	61	61	61	61	55	52	54
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091452 oncorhynchu P23847 oncorhynchu P15575 gallus gall 096rp4 mus musculu P163348 rattus norv 096rp5 mus musculu 018917 oryctolagus 066eg4 mus musculu 013717 homo sapien 094751 homo sapien P4751 homo sapien 090579 gallus gall
091452 BJAT ONCMY BJAT CHICK 09ERP BJA3 MOUSE BJA3 MOUSE BJA3 RAIT 09ERF 01377 01377 01377 099416 BJA3 HUMAN 09057 08H6B1
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ALIGNMENTS

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MEDLINE=20400020; PubMed=10942405;
Brunati A.M., Bordin L., Clari G., James P., Quadroni M., Baritono E., Pinna L.A., Donella-Deana A.;
"Sequential phosphorylation of protein band 3 by Syk and Lyn tyrosine kinases in intact human erythrocytes: identification of primary and SEQUENCE OF 834-911.

MEDLINE-88228050; PubMed=3372523;
Kawano Y., Okubo K., Tokunaga F., Miyata T., Iwanaga S., Hamasaki N.;
"Localization of the pyridoxal phosphate binding site at the COOHterminal region of erythrocyte band 3 protein.";
J. Biol. Chem. 263:8232-8238(1988). VARIANT MEMPHIS GLU-56. MEDLINE=91329825; PubMed=1678289; Yannoukakos D., Vasseur C., Driancourt C., Blouquit Y., Delauney J., VARIANT HE 400-ALA--ALA-408 DEL, AND VARIANT MEMPHIS GLU-56. MEDLINE-92107882; PubMed=1722314; Jarcolim P., Palek J., Amato D., Hassan K., Sapak P., Nurse G.T., Rubin H.L., Zhai S., Sahr K.E., Liu S.-C.; "Deletion in erythrocyte band 3 gene in malaria-resistant Southeast MEDLINE=92167271; PubMed=1538405; Schofield A.E., Tanner M.J.A., Pinder J.C., Clough B., Bayley P.M., Nash G.B., Dluzewski A.R., Reardon D.M., Cox T.M., Wilson R.J.M., Brock C.J., Tanner M.J.A., Kempf C.; "The human erythrocyte anion-transport protein. Partial amino acid sequence, conformation and a possible molecular mechanism for anion protein in the human erythrocyte membrane. Acylation occurs in the middle of the consensus sequence of F--I-ICLAVI found in band 3 protein and G2 protein of Rift Valley fever virus."; J. Biol. Chem. 266:16420-16424(1991). VARIANT HS ARG-127.

MEDLINE=9229950; PubMed=1378323;
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Cohen C.M.;
"Band 3 Tuscaloosa: Pro-327--->Arg substitution in the cytoplasmic domain of erythrocyte band 3 procein associated with spherocytic hemolytic anemia and partial deficiency of protein 4.2.";
plood 80:523-529(1992). ROLE OF GLU-681, AND SEQUENCE OF 665-688.

MEDLINES-23232495, PubMed=1352774;
Jennings M.L., Smith J.S.; J.S.;
"Anion-proton cotransport through the human red blood cell band 3 ά Okubo K., Hamasaki N., Hara K., Kageura M.; "Palmitoylation of cysteine 69 from the COOH-terminal of band 3 Wajoman H., Bursaux E.; "Human erythrocyte band 3 polymorphism (band 3 Memphis): characterization of the structural modification (Lys 56-->Glu) 'Basis of unique red cell membrane properties in hereditary PHOSPHORYLATION SITES TYR-8; TYR-21; TYR-359 AND TYR-904 Proc. Natl. Acad. Sci. U.S.A. 88:11022-11026(1991). Role of glutamate 681."; Chem. 267:13964-13971(1992) secondary phosphorylation sites."; Blood 96:1550-1557(2000). PALMITOYLATION OF CYS-843. MEDLINE=91358422; PubMed=1885574; VARIANT HE 400-ALA--ALA-408 DEL. ovalocytosis."; J. Mol. Biol. 223:949-958(1992); Biochem. J. 213:577-586(1983). methods."; protein chemistry methods Blood 78:1117-1120(1991). Asian ovalocytosis." Gratzer W.B.; exchange. Biol. protein. BETTABARTTABARTTTABARTTTABARTTTABARTTTABARTTTABARTTTTABARTTTABARTTTABARTTTABARTTTABARTTTABARTTTABA

MEDITNE=95134893; PubMed=7530501; MEDITNETT. Zolotarev A.S., Jarolin P., Rubin H.L., Brabec V., Chrobak L., Zolotarev A.S., Alper S.L., Brugnara C., Wichterle H., Palek J.; Zolotarev C., avichterle H., Palek J.; Zolotarev C., avichterle B., Palek J.; Zolotarev D. D. Brugnara C., Wichterle H., Palek J.; Zolotarev C., avichterle B., Palek J.; Zolotarev C., avichterle B., Palek J.; Zolotarev C., Alphroid Band 3 lead to a decrease in membrane-associated band 3 and to the phenotype of hereditary spherocytosis."; Blood 85:614-640(1995). "Human erythrocyte protein 4.2 deficiency associated with hemolytic anemia and a homozygous 40 glutamic acid-->lysine substitution in the cytoplasmic domain of band 3 (band 3Montefiore)."; MEDIINE=93343855; PubMed=8343110; Bruce L.J., Kay M.M., Lawrence C., Tanner M.J.; Bruce L.J., Kay m.M., Lawrence C., Tanner M.J.; "Band 3 HT, a human red-cell variant associated with acanthocytosis and increased anion transport, carries the mutation Pro-868-->Leu in the membrane domain of band 3."; Biochem. J. 293:317-320(1993). VARIANT HS ASP-771.

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Baklouti F., Tanner M.J., Delaunay J., Alloisio N.;

"Band 3 Chur: a variant associated with band 3-deficient hereditary spherocytosis and substitution in a highly conserved position of and Bruce L.J., Anetee D.J., Spring F.A., Tanner M.J., "Band 3 Memphis variant II. Altered stilbene disulfonate binding a "He Diego (Dia) blood group antigen are associated with the human erythrocyte band 3 mutation Pro-854-->Leu."; J. Biol. Chem. 269:16155-16158(1994). Tanner M.J.; changes in the blood group Wright antigens are associated with a mutation at amino acid 658 in human erythrocyte band 3: a site of interaction between band 3 and glycophorin A under certain VARIANTS HS LYS-40; CYS-518 AND MET-663 DEL.
MEDILINE-56225450; PubMed-8640229;
Eber S.W., Gonzalez J.M., Lux M.L., Scarpa A.L., Tse W.T.,
Dornwell M., Herbers J., Kugler W., Oezcan R., Pekrun A.,
Gallagher P.G., Schroeter W., Forget B.G., Lux S.E.;
"Ankyrin-1 mutations are a major cause of dominant and recessive hereditary spherocytosis."; "Characterization of 13 novel band 3 gene defects in hereditary spherocycosis with band 3 deficiency."; Blood 88:4366-4374(1996). Jarolim P., Murray J.L., Rubin H.L., Taylor W.M., Prchal J.T., Ballas S.K., Snyder L.M., Chrobak L., Melrose W.D., Brabec V., MEDLINE=95111140; PubMed=7812009; Bruce L.J., Ring S.M., Anstee D.J., Reid M.E., Wilkinson S., MEDLINE-93229758; Pubmed-8471774; Rybicki A.C., Qiu J.J.H., Musto S., Rosen N.L., Nagel R.L., Schwartz R.S.; VARIANTS HS ASP-285; GLU-455; PRO-707; PRO-834 AND MET-837 VARIANTS HS GLN-760; TRP-760; CYS-808 AND TRP-870 VARIANT BLOOD GROUP DI(A)/MEMPHIS-II. MEDLINE=94266802; PubMed=8206915; MEDLINE=97099297; PubMed=8943874; Br. J. Haematol. 91:804-810(1995) VARIANTS HS SER-147 AND MET-488. MEDLINE=97351102; PubMed=9207478; Genet. 13:214-218(1996). VARIANT MONTEFIORE LYS-40 VARIANT BLOOD GROUP WR (A) transmembrane segment 11. Blood 85:541-547(1995). conditions. Palek [18]

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5.1.6
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GenCore version (c) 1993 - 2005
          Copyright
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OM protein - protein search, using sw model

August 26, 2005, 15:33:50 ; Search time 164 Seconds (without alignments) 33.016 Million cell updates/sec Run on:

US-10-663-215-5 score: Perfect

1 YETFSKLIKIFQDH 14 Sequence:

Scoring table:

BLOSUM62 Gapop 10.0 , Gapext 0.5

2105692 seqs, 386760381 residues Searched:

Total number of hits satisfying chosen parameters:

2105692

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

A Geneseq 16Dec04:* 1: депеветите geneseqp1980s:* Database

geneseqp2001s:*
geneseqp2002s:*
geneseqp2003as:*
geneseqp2003bs:* geneseqp1990s:* geneseqp2000s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description	Aaw01093 Exofacial	Aab74884 Human ban	Aau30823 Novel hum	Aar15355 Human ery	Aaw90263 A. tigrin	Aab46914 Human ery	Aae29343 Human Ban	Aae29344 Human Ban	Ade56706 Human Pro	Adj68197 Human hea	_	Adl06510 Human tum		Aau30825 Novel hum	Rat Pr	Abb84592 Human cat	Ade56763 Rat Prote	m	Ade56759 Rat Prote	Ade56757 Rat Prote	Adf72495 Osteoclas	Adf72499 Osteoclas	Adf72501 Osteoclas	Aaw90262 A. tigrin	Ade56755 Human Pro
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Length	58	58	80	911	911	911	911	911	911	911	911	911	933	962	927	20	1234	1234	1234	1234	1237	1227	1232	1240	1241
당선	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	91.9	87.8	86.5	86.5	86.5	86.5	86.5	85.1	85.1	85.1	85.1
Score	74	74	74	74	74	74	74	74	74	74	74	74	74	74	68	65	64	64	64	64	64	63	63	63	63
Result No.		7	m	4	S	9	7	80	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

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ADE56761 ADE57913 ADE57913 ADE25314 AAN90261 AAN90261 ABN83555 ABN83555 ABN83553 ABN83553 ABN83551 ADE8070768 AAN18597 AAN18895 AAN18895	ADJ48487 ADJ50288 ADJ48728
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ALIGNMENTS

Anion transporter band 3 protein; endothelial adhesion; red blood cell; cytoplasmic domain; erythrocyte; exofacial loop; epitope; antibody; mammal; plasmodium falciparum infection; sickle cell disease; diabetes; band 3; thalassaemia; anaemia; therapy. Exofacial region loop 3 of band 3 protein (residues 520-577). AAW01093 standard; peptide; 58 AA. (first entry) 08-MAY-1997 AAW01093; AAW01093

Synthetic.

WO9629086-A1.

26-SEP-1996.

96WO-US003180. 07-MAR-1996; 95US-00405647. 17-MAR-1995;

(REGC) UNIV CALIFORNIA.

Thevenin BJ; Shohet SB, Crandall IE, Sherman IW,

WPI; 1996-442944/44.

Peptide(s) with amino acid motifs in band 3 - used for reducing the adhesiveness of red blood cells for treating malaria, sickle cell disease, thalassemia or diabetes.

Example 2; Page 20; 48pp; English.

AAW01053-W01095 represent peptides isolated from (or based on) regions of the anion transporter band 3 protein. The band 3 protein is present in a million copies per red blood cell, in the form of monomers, dimers, or tetramers. Band 3 protein has two distinct domains, a 43 kD water-soluble cytoplasmic domain, and a 55 kD membrane spanning domain. In an number of otherwise-unrelated conditions (such as malaria, and diabates), there are modifications in band 3, such that there is clustering and a change in the conformation (and by the exposure of cryptic adhesive sites), the normally non-adherent erythrocyte becomes a cell with enhanced endothelial adhesiveness. These sequences were found in the putative

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The present invention describes a method for enhancing thrombolysis in a mammal. The method comprises the administration to the mammal an amount of an inhibitor (I) of protein band 3-ligand interaction sufficient to enhance thrombolysis. (I) has thrombolytic activity. The method is useful for enhancing thrombolysis in a mammal. (I) is useful for enhancing thrombolysis in a mammal. (I) is useful for enhancing intermpolytic activity, in the management of acute myocardial infarction, for lysis of intracoronary thrombi, for improvement of ventricular function, for reduction of congestive heart famince, for reduction of mortality, for the lysis of pulmonary emboli blocking blood flow to one or more lobes of the lung, for the lysis of acute arterial thrombosis and embolism, for the lysis of thrombosis in blood or in cerebral sinuses, to reopen i.v. catheters obstructed by clotted blood or fibrin, to prevent clot formation of lysing clots, to prevent clotting and to prevent the recurrence of thrombosis in patients by testing and to prevent the recurrence of thrombosis in patients by tresting and to prevent the recurrence of thrombosis in patients by tresting and to prevent the recurrence of thrombosis in patients by tresting and to prevent the recurrence of thrombosis in patients by probably lactic administration. The present sequence represents a human band semplification of the present invention
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exofacial loops of band 3, and are epitopes for antibody binding. These sequences compete with the altered band 3 protein, and thereby block the adhesiveness of the red blood cells. The peptides can be used for reducing the adhesiveness of red blood cells in a mammalian patient characterised by a condition selected from Plasmodium falciparum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Anti-Plasmodium falciparum; interaction inhibitor; band 3 protein; thrombolysis; thrombolytic; fibrinolytic; acute myocardial infarction; 1981s; ventricular function; congestive heart failure; mortality; acute arterial thrombosis; embolism; thrombosis; cerebral sinus.
                                                                                                                                                                                                                                                Gaps
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                                                                                                                                                                                                   100.0%; Score 74; DB 2; Length 58; 100.0%; Pred. No. 5.3e-05;
                                                                                                            infection, sickle cell disease, thalassaemia and diabetes
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nes 14; Conservative
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                                                                                                                                                         Sequence 58 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  stimulation; as anti-inflammatory agents; and in treatment of leukaemias. AAU29510-AAU33304 represent the amino acid sequences of novel human secreted proteins of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polypeptides and antibodies to the polypeptides are useful for determining the presence of or predisposition to a disease associated with altered levels of polypeptide. The polypeptides are also useful for identifying agents (agonists and antagonists) that bind to them. Cells expressing the proteins are useful for identifying a therapeutic agent for use in treatment of a pathology related to aberrant expression or physiological interactions of the polypeptide. Vectors comprising the nucleic acids encoding the polypeptides and cells genetically engineered to express them are also useful for producing the proteins. The proteins are useful in genetic vaccination, testing and therapy, and can be used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acids encoding a range of human polypeptides, useful in genetic vaccination, testing and therapy.
                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                    Human, vaccination; gene therapy; nutritional supplement;
stem cell proliferation; haematopoiesis; nerve tissue regeneration;
immune suppression; immune stimulation; anti-inflammatory; leukaemia.
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                                               Length 58;
                                                                               Indels
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100.0%; Pred. No. 7.4e-05;
tive 0; Mismatches 0;
                                             Score 74; DB 4; I
Pred. No. 5.3e-05;
                                                                               0; Mismatches
                                                                                                                                                                                                                                                                                                                                        Novel human secreted protein #1314.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 20; Page 353; 765pp; English.
                                                                                                                                                                                                                                     AAU30823 standard; protein; 80 AA.
                                             100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-APR-2000; 2000US-00552929.
26-JAN-2001; 2001US-00770160.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              16-APR-2001; 2001WO-US008656
                                                                                                                  1 YETFSKLIKIFODH 14
                                                                                                                                                15 YETFSKLIKIFODH 28
                                                                                                                                                                                                                                                                                                        (first entry)
                                          Query Match
Best Local Similarity 100.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Liu C,
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              Sequence 58 AA;
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1 YETFSKLIKIFQDH 14

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Thu Sep 1 12:07:31 2005

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on:

August 26, 2005, 15:39:16 ; Search time 39 Seconds (without alignments) 34.539 Million cell updates/sec

US-10-663-215-5 74

1 YETFSKLIKIFQDH 14 Title: Perfect score: Sequence: BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

283416 segs, 96216763 residues Searched:

283416 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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SUMMARIES	αi	взно	A33810	A25314	A34911	A56764	A31789	A25104	S21086	S59861	S24318	A30816	A42497	A33638	B34911	S31828	138496	150159	T19326	T08309	T28927	T37568	T23057	C84582	C64612	B71903	G84109	T24308	T30861	874293
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æ	Query Match	100.0	91.9	91.9	86.5	86.5	86.5	85.1	85.1	73.0	73.0	71.6	71.6	71.6	71.6	70.3	70.3	67.6	58.1	58.1	58.1	56.8	55.4	55.4	54.7	54.7	54.1	54.1	54.1	54.1
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358 306 389	737 971 976	1016 1199 1887	313 416 815	817 306 330	1520
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31	, w w w	36 37 38	39 41 41	4 4 4 2 6 4	45

ALIGNMENTS

 RESULT 1 B3HU
band 3 anion transport protein, erythrocyte - human Nallernate names: carrider family 4, anion exchanger, member 1; erythroid anion exchange C. Condies: Dome carriers (men)
C;Species: nom0 baptens (man) C;Date: 03-Aug-1984 #sequence_revision 03-Oct-1995 #text_change 09-Jul-2004 C;Accession: A36218; S03074; I39408; I39409; A92237; A26507; A92430; A90323; A28079; S059 R;Lux. S.E.; John, K.M.; Kobito, R.R.; Lodish, H.F.
 Proc. Natl. Acad. Sci. U.S.A. 86, 9089-9093, 1989 A,Title: Cloning and characterization of band 3, the human erythrocyte anion-exchange pro A,Reference number: A36218; MUID:90083213; PMID:2594752
 A,Accession: A36218 A,Status: preliminary A,Molecule type: mRNA
A;Residues: 1-911. LUXX. A;Cross-references: UNIRROT:P02730; GB:M27819; NID:g178215; PIDN:AAA35514.1; PID:g178216. R;Tanner, M.J.A.; Martin, P.G.; High, S.
Biochem. J. 256, 703-712, 1988 A;Title: The complete amino acid sequence of the human erythrocyte membrane anion-transpot A;Reference number: \$03074; MUID:89134172; PMID:3223947
A;Accesion: SO30'4 A;Molecule type: mRNA A;Residues: 1-55', E', 57-911 <tan></tan>
 A;Cross-references: EMBL:X12609; NID:g28713; PIDN:CAA31128.1; PID:g28714 R;Showe, L.C.; Ballantine, M.; Huebner, K.
 Genomics 1, 71-70, 1387 A;Title: Localization of the gene for the erythroid anion exchange protein, band 3 (EMPB: A;Reference number: I39408; MUID:88031311; PMID:3478298 A;Accession: 139408
A;Molecule.type: DNA A;Residues:37-65 <bhg1> A;Cross-references: GB:Mi6978; NID:q178217; PIDN:AAA51670.1; PID:q178220</bhg1>
A;Accession: 139409 A;Molecule type: DNA A;Residues: 118-161 <sho2></sho2>
A;Cross-references: GB:M16979; NID:g178218; PIDN:AAA51671.1; PID:g553169 R;Drickamer, L.K.
 J. Biol. Chem. 253, 7242-7248, 1978 A;Title: Orientation of the band 3 polypeptide from human erythrocyte membranes. Identif: A;Reference number: A92237; MUID:79027186; PMID:701248
A;Accession: A92237 A;Molecule type: protein A;Resiques: 1-3 <dri></dri>
 R.Mawby, W.J.; Findlay, J.B.C. Biochem. J. 205, 465-475, 1982 A,Title: Characterization and partial sequence of di-iodosulphophenyl isothiocyanate-binc A,Reference number: A26507; MUID:83074521; PMID:7150226 A,Accession: A26507
 A;Molecule type: protein A;Residues: 437-473;360-364,'D',366-369 <maw> R;Kaul, R.K.; Murthy, S.N.P.; Reddy, A.G.; Steck, T.L.; Kohler, H. J. Biol. Chem. 258, 7981-7990, 1983</maw>

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C;Comment: Band 3 has at least two functional domains. Its integral domain mediates a 1:3 ing sites for cytoskeletal proteins, glycolytic enzymes, and hemoglobin.
C;Genetics:
                                                                                                                               A; Gene: GDB: SLC4A1; EPB3
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A; Residues: 1-848 <KUD>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F;604-624/Domain:
F;659-680/Domain:
F;701-721/Domain:
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:568-588/Domain:
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       A; Reference number: A92430; MUD:8328395; PMID:6345535
A; Reference number: A92430; MUD:8328395; PMID:6345535
A; Accession: A92430; MUD:832895; PMID:6345535
A; Accession: A92430; MUD:832895; PMID:6345535
A; Molecule type: protein
A; Residues: 1-10, D'.12-66, E', 69-200 < KAU>
R; Brochem. J. 213, S77-586, 1983
A; Title: The human erythrocyte anion-transport protein.
A; Recence number: A90323; MUD:83308584; PMID:6615451
A; Molecule type: protein
A; Accession: A90323
A; Molecule type: protein
A; Accession: A90323
A; Molecule type: protein
A; Redidues: 555-630 was shown to bind phenyl isothiocyanate, an inhibitor of anion transport B; Kawano, Y: Okubo, K: Tokunaga, F:; Miyata, T:; Iwanaga, S:; Hamasaki, N.
A; Biol. Chem. 263, 8232-8238, 1988
A; Title: Localization of the pyridoxal phosphate binding site at the COOH-terminal regic A; Reference number: A28079; MUD:88228050; PMID:3372523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Molecule type: protein
A;Residues: 361-911 <HAM>
C;Comment: Band 3 is the major integral glycoprotein of the erythrocyte membrane. A dime
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band 3 protein - mouse
(Species: Mus muscallus (house mouse)
C;5pecies: 22-3011-1987 #sequence revision 22-301-1987 #text_change 09-301-2004
C;Accession: A25314; A26086; T49524; B25104
C;Accession: R.R.; Lodish, H.F.
Nature 316, 234-238, 1985
A;Title: Primary structure and transmembrane orientation of the murine anion exchange-pro
                                                                                                                                                      Reywords: acetylated amino end; glycoprotein; ion transport; phosphoprotein; transmemb)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Gross-references: UNIPROT:P23562; GB:J04793; NID:g203092; PIDN:AAA40800.1; PID:g203093
C;Superfamily: band 3 anion transport protein
C;Keywords: alternative splicing; transmembrane protein
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R;Kudrycki, K.B.; Shull, G.E.
B.; Biol. Chem. 264, 8185-8192, 1989
A;Title: Primary structure of the rat kidney band 3 anion exchange protein deduced from A;Reference number: A33810; MUID:89255254; PMID:2722777
A;Accession: A33810
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C;Date: 09-Mar-1990 #sequence_revision 09-Mar-1990 #text_change 09-Jul-2004
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Pred. No. 0.00013;
Mismatches 0; Indels
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Pred. No. 0.0013;
1; Mismatches 0; Indels
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F;701-721/Domain: transmembrane #status predicted <TW09>
F;723-743/Domain: transmembrane #status predicted <TM10>
F;764-780/Domain: transmembrane #status predicted <TM10>
F;764-780/Domain: transmembrane #status predicted <TM11>
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A,Cross-references: GDB:119874, OMIM:109270
A,Map position: 17q21-17q22
C;Superfamily: band 3 anion transport protein
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transmembrane #status
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                                                                                                                                                                                                                                                                                                                       ;405-427/Domain: transmembrane #status
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Best Local Similarity 92.9
Matches 13; Conservative
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GenCore version 5.1.6
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OM protein - protein search, using sw model

August 26, 2005, 15:40:26; Search time 42 Seconds (without alignments) 24.883 Million cell updates/sec Run on:

US-10-663-215-5 74 Title: Perfect score:

1 YETFSKLIKIFQDH 14 Sequence:

BLOSUM62 Gapop 10.0 , Gapext 0.5 Scoring table:

513545 segs, 74649064 residues Searched:

513545 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Issued Patents AA:*

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(cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
(cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
(cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		de			SUMMARIES		
Result No.	Score	Query Match	Length	DB	ID	Description	
	74	100.0	58		US-08-405-647B-41	Sequence 41, Appl	بب
7	74	100.0	58	٣	US-08-985-499-41	41,	_
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4	47	63.5	15	m	US-08-985-499-8	8,	·H
ß	47	63.5	1232	4	US-09-248-796A-14563		A
9	43	58.1	702	4	US-09-248-796A-15814	Sequence 15814,	A
7	41	55.4	567	4	US-09-328-352-7620	Sequence 7620, A	Ω
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11	39	52.7	159	4	US-09-270-767-42715	427	A
12	39	52.7	203	Н	US-08-419-414-8	æ	·H
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14	39	52.7	203	ო	US-09-130-287-3	'n	·ri
15	39	52.7	299	4	US-09-248-796A-23140	231	A
16	39	52.7	453	4	US-09-270-767-44967	Sequence 44967,	A
17	39	52.7	631	4	US-09-248-796A-14984	Sequence 14984,	A
18	39	52.7	1323	4	US-09-270-767-46728	Sequence 46728,	Ą
19	38	51.4	105	m	US-08-936-165A-467	Sequence 467, App	Q.
20	38	51.4	385	4	US-09-643-596B-140	140,	Q.
21	38	51.4	391	ო	US-09-378-088A-78	78, 7	<u>.</u>
22	38	51.4	391	4	US-09-643-596B-78	78,	7
23	38	51.4	462	m	US-09-378-088A-82		4
24	38	51.4	462	4	US-09-643-596B-82	82,	-
25	38	51.4	630	4	US-09-360-545-67	67,	<u>-</u>
26	37	50.0	66	н	US-08-202-389-36	36,	-
27	37	50.0	431	4	US-09-248-796A-17260	Sequence 17260, A	¥

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1 YETFSKLIKIFQDH 14

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Sequence 11652, A Sequence 7210, Ap Sequence 3066, Ap Sequence 1375, Ap Sequence 4904, Ap Sequence 4906, Ap Sequence 1936, Ap Sequence 2, Applis Sequence 2, Applis Sequence 21, Applis Sequence 21, Applis Sequence 31807, A Sequence 31807, A Sequence 31807, Applis Sequence 318	Sequence 28, Appl Sequence 1386, Ap
US-09-949-016-11652 US-09-328-352-7210 US-09-107-433-3376 US-09-107-433-3376 US-09-248-796A-19876 US-09-513-999C-4904 US-09-513-999C-4906 US-09-513-999C-4906 US-09-513-99C-4906 US-09-513-09C-4906 US-09-248-796A-18363 US-09-248-796A-18363 US-09-248-796A-18363 US-09-248-796A-18363 US-09-278-796A-18363 US-09-278-796A-18363 US-09-278-796A-18363 US-09-278-796A-18363 US-09-278-796A-18363 US-09-278-783-64	US-08-477-451-28 US-09-710-279-1386
4 4 4 4 4 4 4 4 4 A 4 A 4 A 4 A 4 A 4 A	0.4
495 495 747 747 751 1196 80 80 80 80 81 97 1159 1159 1159 1159 1159 1159 1159	382 496
0 0 0 0 0 0 4 4 4 4 4 4 4 4 4 4 4 4 4 0	48.6 48.6
	36
8 0 0 1 0 1 0 1 0 1 0 0 0 1 0 1 0 0 0 0	44 5

ALIGNMENTS

RESULT 1

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Sequence 41, Application US/08405647B

Sequence 41, Application US/08405647B

Bell CANT: Sherman, Irwin W.

APPLICANT: Sherman, Irwin W.

APPLICANT: Thevenin, Bernard Jean-Marie

APPLICANT: Thevenin, Bernard Jean-Marie

TITLE OF INVENTION: Compositions and Methods for Reducing

TITLE OF INVENTION: Adhesiveness of Defective Red Blood Cells

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:

ADDRESSEE: Two Embarcadero Center, Righth Floor

CITY: San Francisco

STARE: California

CONNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 58;
                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA

ZIF: 9411-181
ZOMUTER: 181 FOLDS, MS.
COMPUTER: 181 PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/08/405,647B
FILING DATE: 17-MAR-1995
JILING DATE: 17-MAR-1995
ZIASSIFICATION: 514
ATTOMES/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 02307E-068700US
FELECOMMUNICATION NUMBER: 02307E-068700US
TELEPRAX: (415) 576-0200
TELEPRAX: (415) 576-0300
JINFORMATION FOR SEC ID NO: 41:
SEQUENCE CHARACTERISTICS:
TWATH. 58 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ouery Match 100.0%; Score 74; DB 3; Lu
Best Local Similarity 100.0%; Pred. No. 6.4e-06;
Matches 14; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: amino acid STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-405-647B-41
US-08-405-647B-41
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15 YETFSKLIKIFQDH 28

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Sequence 41, Application US/08985499
Fatent No. 619103
GENERAL INFORMATION
APPLICANT: Shohet, Stephen B.
APPLICANT: Shohet, Stephen B.
TITLE OF INVENTION: Mammal
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET TWO Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: The Regents of the University
APPLICANT: of California
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR REDUCING
TITLE OF INVENTION: ADHESIVENESS OF DEFECTIVE RED BLOOD CELLS
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
100.0%; Score 74; DB 3; Length 58;
Best Local Similarity 100.0%; Pred. No. 6.4e-06;
Matches 14; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Floppy disk
COMPUTER: PLOPPY disk
COMPUTER: PATENT PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,499
FILING DATE: 05-DEC-1997
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Robbins, Berliner & Carson
STREE: 201 North Figueroa Street, Suite 500
STATE: Los Angeles
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Hyman, Laurence J.
RECISTRATION NUMBER: 35,551
REFERENCE/DOCKET NUMBER: 02307E-084500US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEPAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PCT-US96-03180-41; Sequence 41, Application PC/TUS9603180; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 90012-2628
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15 YETFSKLIKIFQDH 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 YETFSKLIKIFODH 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      58 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 58 amino TYPE: amino acid STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          linear
                                                                                                                                                                                                                                                                                                                                                       STATE: Ca
RESULT 2
US-08-985-499-41
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APPLICANT: Shohet, Stephen B.
APPLICANT: Shohet, Irwin
APPLICANT: Sherman, Irwin
APPLICANT: von Andrian, Ulrich
TITLE OF INVENTION: Methods for Enhancing Thrombolysis in a
TITLE OF INVENTION: Mammal
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 74; DB 5; Length 58; 100.0%; Pred. No. 6.4e-06;
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ZIP: 9411-3834

COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PARTIEN PC-DOS/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,499
FLING DATE: 05-DEC-1997
CLASSIFICATION: 514
ATTORNEX/AGENT INFORMATION:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/03180
FILING DATE:
CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              02307E-084500US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                      ATTORNEY AGENT INFORMATION:
NAME: Berliner, Robert
REGISTATION NUMBER: 20,121
REFERENCE/DOCKET NUMBER: 5555-370
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 977-1001
TELEPHONE: (213) 977-1001
TELEPHONE: (213) 977-1001
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 8, Application US/08985499
Patent No. 6191103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Hyman, Laurence J.
REGISTRATION UNDRER: 35,521
REFERENCE/DOCKET NUMBER: 0230'
TELECOMMUNICATION INFORMATION:
TELEPAX: (415) 576-0200
TELEPAX: (415) 576-0200
INFORMATION FOR SEQ ID NO: 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              15 YETFSKLIKIFQDH 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 YETFSKLIKIFQDH 14
                                                                                                                                                                                                                                                                                                                                                         LENGTH: 58 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            . TYPE: amino acid

STRANDEDNES:

; TOPOLOGY: linear

; MOLECULE TYPE: peptide

US-08-985-499-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 100.
Matches 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: Two Embarcac
CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                    PCT-US96-03180-41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 4
US-08-985-499-8
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TYPE: PRT
ORGANISM: Artificial Sequence
PRATURE:
OTHER INFORMATION: Description of Artificial Sequence:preferred
OTHER INFORMATION: native AEI sequence, peptide including two
OTHER INFORMATION: residues on either side of predicted alpha-helix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
100.0%; Score 74; DB 17;
Best Local Similarity 100.0%; Pred. No. 1.5e-05;
Matches 14; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 YETFSKLIKIFODH 14
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2, Appli
6, Appli
8, Appli
3, Appli
500, Appl
1, Appli
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Appli
, Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                August 26, 2005, 15:44:26 ; Search time 159 Seconds (without alignments) 34.597 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  43,
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11. (cgn2_6/ptodata1//pubpaa/US07_PUBCOMB.ppp:*

12. (cgn2_6/ptodata1//pubpaa/US07_NEW_PUB.pep:*

13. (cgn2_6/ptodata1//pubpaa/US06_PUBGOMB.pep:*

14. (cgn2_6/ptodata1//pubpaa/US07_NEW_PUB.pep:*

15. (cgn2_6/ptodata1//pubpaa/US07_NEW_PUB.pep:*

15. (cgn2_6/ptodata1//pubpaa/US08_PUBCOMB.pep:*

16. (cgn2_6/ptodata1//pubpaa/US08_PUBCOMB.pep:*

17. (cgn2_6/ptodata1//pubpaa/US08_PUBCOMB.pep:*

18. (cgn2_6/ptodata1//pubpaa/US08_PUBCOMB.pep:*

19. (cgn2_6/ptodata1//pubpaa/US09_PUBCOMB.pep:*

10. (cgn2_6/ptodata1//pubpaa/US09_PUBCOMB.pep:*

11. (cgn2_6/ptodata1//pubpaa/US09_PUBCOMB.pep:*

12. (cgn2_6/ptodata1//pubpaa/US09_PUBCOMB.pep:*

13. (cgn2_6/ptodata1//pubpaa/US10B_PUBCOMB.pep:*

14. (cgn2_6/ptodata1//pubpaa/US10B_PUBCOMB.pep:*

15. (cgn2_6/ptodata1//pubpaa/US10B_PUBCOMB.pep:*

16. (cgn2_6/ptodata1//pubpaa/US10B_PUBCOMB.pep:*

17. (cgn2_6/ptodata1//pubpaa/US10B_PUBCOMB.pep:*

18. (cgn2_6/ptodata1//pubpaa/US10B_PUBCOMB.pep:*

19. (cgn2_6/ptodata1//pubpaa/US11_NEW_PUB.pep:*

11. (cgn2_6/ptodata1//pubpaa/US11_NEW_PUB.pep:*

12. (cgn2_6/ptodata1//pubpaa/US11_NEW_PUB.pep:*

13. (cgn2_6/ptodata1//pubpaa/US11_NEW_PUB.pep:*

14. (cgn2_6/ptodata1//pubpaa/US11_NEW_PUB.pep:*

15. (cgn2_6/ptodata1//pubpaa/US11_NEW_PUB.pep:*

16. (cgn2_6/ptodata1//pubpaa/US11_NEW_PUB.pep:*

17. (cgn2_6/ptodata1//pubpaa/US11_NEW_PUB.pep:*

17. (cgn2_6/ptodata1//pubpaa/US11_NEW_PUB.pep:*

17. (cgn2_6/ptodata1//pubpaa/US10_PUBCOMB.pep:*

17. (cgn2_6/ptodata1//pubpaa/US10_PUBCOMB.pep:*

17. (cgn2_6/ptodata1//pubpaa/US10_PUBCOMB.pep:*
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-663-215-5
US-10-066-320-2
US-10-087-464-6
US-10-087-464-8
US-10-408-765A-3
US-10-408-765A-90
US-10-663-215-1
US-10-663-215-1
US-10-948-518-90
US-10-128-202-4
US-10-618-281-43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Potal number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1767149 segs, 392926209 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Published Applications AA:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                    OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                        1 YETFSKLIKIFQDH 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                        US-10-663-215-5
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Match Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1000.0
1000.0
1000.0
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Length 14; Indels

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US-10-663-215-5

Sequence 5, Application US/10663215

Sequence 5, Application US/10663215

Sequence 5, Application No. US2005009588A1

GENRRAL INFORMATION:

APPLICANT: Sherman, Irwin

APPLICANT: Minograd, Enrique

APPLICANT: The Regents of the University of California

TILLE OF INVENTION: Peptides Which Generate Antibodies Resulting in Lysis

TILLE OF INVENTION: of Pathologically Adherent Erythrocytes

TILLE REFERENCE: 103070-140500US

CURRENT APPLICATION NUMBER: US/10/663,215

NUMBER OF SEQ ID NOS: 23

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 5

LENGTH: 14
                                                                 Sequence 809, App
Sequence 15, Appl
Sequence 10, Appl
Sequence 14, Appl
Sequence 6, Appli
Sequence 471, App
Sequence 7682, Ap
Sequence 782, Ap
Sequence 2292, Ap
Sequence 2307, Ap
Sequence 271, App
Sequence 671, App
                                                                                                                                                                                                                                    Sequence 354, App
Sequence 9, Appli
Sequence 294197,
                              Sequence 17, Appl
Sequence 22, Appl
Sequence 280986,
                                                     255095,
178722,
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Sequence 195824,
                       235061,
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US-10-663-215-9
US-10-425-115-294197
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                                                                                                                                                                                                                                                                           ALIGNMENTS
                                10
107
153
389
779
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APPLICANT: Li, Xuerong
TITLE OF INVENTION: Band 3 Antigenic Peptides, Malaria Polypeptides and Uses Thereof
TITLE OF INVENTION: Band 3 Antigenic Peptides, Malaria Polypeptides and Uses Thereof
FILE REFERENCE: $12317/104
CURRENT APPLICATION NUMBER: US/10/087,464
CURRENT FILING DATE: 2002-03-01
PRIOR FILING DATE: 2001-03-02
NUMBER OF SEQ ID NOS: 59
SOFTWARE: Patentin version 3.0
SEQ ID NO 8
LENGTH: 911
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GENERAL INFORMATION:

JAPPLICANT: GROWN, Sounitra S.

APPLICANT: Tang, Bing

APPLICANT: Glenn, Gary M.

APPLICANT: Glenn, Gary M.

APPLICANT: Glenn, Gary M.

TITLE OF INVENTION: TRACETS E.

TITLE OF INVENTION: TRACETS E.

TITLE OF INVENTION: TRACETS E.

TITLE OF SEQUENCE: 660088 465

CURRENT APPLICATION NUMBER: US/10/408,765A

CURRENT FILING DATE: 2003-04-04

NUMBER OF SEQ ID NOS: 3077

SEQ ID NO 3

LENGTH: 911
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Pred. No. 0.0011;
Wismatches 0; Indels 0
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Gibson, Bradford W.
Taylor, Steven W.
Glenn, Gary M.
Warnock, Dale E.
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Best Local Similarity 100.
Matches 14; Conservative
               Liu, David
Goel, Vikas
Li, Xuerong
                                                                                                                                                                                                                                                                           ORGANISM: Homo sapiens
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Oh, Steven
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                            Sequence 2, Application US/10066320

Publication No. US20030022267A1

GENERAL INFORMATION:

APPLICANT: Stander, Jonathan S.

APPLICANT: Singel, David J.

TITLE OF INVENTION: Effects of Hemoglobin

TITLE OF INVENTION: Effects of Hemoglobin

FILE REFERENCE: 1818.1030-003

CURRENT APPLICANTION NUMBER: US/10/066,320

CURRENT APPLICATION NUMBER: US/10/066,320

PRIOR APPLICATION NUMBER: US/000-03

PRIOR APPLICATION NUMBER: US/000/21101

PRIOR PILLING DATE: 2000-08-02

PRIOR PILLING DATE: 299-08-02

NUMBER OF SEQ. ID NOS: 4

SOFTWARE: FREESEQ for Windows Version 4.0
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ORGANISM: Homo sapiens
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Best Local Similarity
Matches 14; Conserv
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LENGTH: 911
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8 유

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

August 26, 2005, 15:47:16 ; Search time 159 Seconds (without alignments) 34.054 Million cell updates/sec Run on:

US-10-663-215-5 14 Title: Perfect score: Sequence:

1 YETFSKLIKIFQDH 14

OLIGO Gapop 60.0 , Gapext 60.0 Scoring table:

2105692 segs, 386760381 residues Searched:

0 Word size :

343861 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 14 Maximum DB seq length: 40

Post-processing: Listing first 45 summaries

Database :

geneseqp2002s:* geneseqp2003as:* geneseqp2003bs:* A_Geneseq_16Dec04:* 1: geneseqp1980s:* 2: geneseqp1990s:* geneseqp2000s:*geneseqp2001s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

geneseqp2004s:*

SUMMARIES

	ion	Aged band	Band 3 pr	Aged band	Anion tra	Human neu	Antioxida	Antioxida	Antioxida	Antioxida	Antioxida	Antioxida	AB loop o	Sequence	Immunomod	Human HLL	Antioxida	Antioxida	Antioxida	Antioxida	Antioxida	Antioxida	Antioxida	Peptide #	Peptide #	Peptide #
	Description	Aaw18597	Aab74851	Aaw18601	Aaw01065	Aay20803	Adc29662	Adc29658	Adc29661	Adc29657	Adc29659	Adc29660	Adn16186	Aar28499	Aaw35627	Adg75452	Adc29669	Adc29665	Adc29668	Adc29670	Adc29664	Adc29667	Adc29666	Aam18765	Abb37865	Aam31272
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SOLMMAKIES	ID	AAW18597	AAB74851	AAW18601	AAW01065	AAY20803	ADC29662	ADC29658	ADC29661	ADC29657	ADC29659	ADC29660	ADN16186	AAR28499	AAW35627	ADG75452	ADC29669	ADC29665	ADC29668	ADC29670	ADC29664	ADC29667	ADC29666	AAM18765	ABB37865	AAM31272
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40	Query Match	71.4	64.3	57.1	50.0	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
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Protei	Aam70994 Human bon	Aam58496 Human bra	Abg52711 Human liv	Abg40784 Human pep	Aam96316 Human rep	Aar76352 Bacterial	Aaw07925 gp41 pept		Aab45779 Human p53	Aab45778 Human p53	Aag98197 Human SNP	Abb05528 Biotinyla	Aau97487 HIV-1 inf	Adh35703 Apolipopr	Adh35732 Apolipopr	Adg75469 Human HLL	Adm18975 HLA-DR bo	Ads13340 Human rhe	Aar46993 Apolipopr
ABB23124	AAM70994	AAM58496	ABG52711	ABG40784	AAM96316	AAR76352	AAW07925	AAB26709	AAB45779	AAB45778	AAG98197	ABB05528	AAU97487	ADH35703	ADH35732	ADG75469	ADM18975	ADS13340	AAR46993
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56	27	28	29	30	31	32	33	34	35	. 36	37	38	39	40	41	42	43	44	45

ALIGNMENTS

AAW18597 standard; peptide; 17 AA. AAW18597

AAW18597;

(first entry) 04-MAR-1998 Aged band 3 peptide (residues 538-554) epitope IV.

Band 3 protein; antibody; aging antigenic site; Alzheimer's disease; phosphorylation; detection; epitope.

Homo sapiens.

WO9726537-A1.

24-JUL-1997.

96WO-US020465. 13-DEC-1996; 96US-0010250P. 19-JAN-1996; (RESE) RESEARCH CORP TECHNOLOGIES INC.

Kay MMB;

WPI; 1997-385478/35.

Detecting Alzheimer's disease using antibody that recognises aged band 3 protein in tissues - or from reduced degree of band 3 protein phosphorylation, can be applied to blood or brain samples.

Claim 10; Page 10; 45pp; English.

This is an aging antigenic band 3 peptide (residues 538-554) to which a specific antibody can bind to. Band 3 is a ubiquitous anion-exchange protein and ages as cells and tissues age. Antibodies have been developed against this aged band 3. These antibodies bind to distinct regions of band 3 in old cells (aging antigenic sites) but not middle aged or young cample containing band 3 from a patient suspected of having Alzheimer's disease. A tissue calls. This can be used for detecting Alzheimer's disease. A tissue disease is treated with an antibody that can differentiate between the Alzheimer's (aged) and normal band 3, under complex-forming conditions and detecting any complex formed. A tissue contenining band 3 from a healthy control is treated in a similar manner and the amounts of complex formed are compared. A significantly greater formation of complex in the suspect sample as compared with that of the control is indicative of

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Gaps

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Length 15;

DB 4; L

64.3%; Score 9; DB 4 100.0%; Pred. No. 0.0 iive 0; Mismatches

Query Match
Best Local Similarity 100.
Matches 9; Conservative

14

6 KLIKIFQDH

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1 KLIKIFODH 9

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Alzheimer's disease. The disease can also be detected by comparing the degrees of phosphorylation of band 3 or its degradation products in suspect and control samples. A significant decrease in phosphorylation in the suspect sample indicates Alzheimer's disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                thrombolysis in mammals comprises administering an inhibitor of
                                                                                                                                                                                                                                                                                             Anti-Plasmodium falciparum; interaction inhibitor; band 3 protein; thrombolysis; thrombolytic; fibrinolytic; acute myocardial infarction; 1981s; ventricular function; congestive heart failure; mortality; acute arterial thrombosis; embolism; thrombosis; cerebral sinus.
                                                                                                     Gaps
                                                                                                                                                                                                                                                                         Band 3 protein-ligand interaction inhibitor peptide SEQ ID NO:8.
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                                                                             71.4%; Score 10; DB 2; Length 17; 100.0%; Pred. No. 0.0014; ive 0; Mismatches 0; Indels
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                                                                                                                                                                                                      AAB74851 standard; peptide; 15 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 28; Col 42; 23pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                        97US-00985499.
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                                                                       Ouery Match 1008
Best Local Similarity 100.
Matches 10; Conservative
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                                                                                                                                        WPI; 2001-307101/32.
                                                        Sequence 17 AA;
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Band 3 protein; antibody; aging antigenic site; Alzheimer's disease; phosphorylation; detection; epitope.

Homo sapiens

Aged band 3 peptide (residues 526-541) epitope.

04-MAR-1998 (first entry)

AAW18601;

AAW18601 standard; peptide; 16 AA.

AAW18601

healthy control is treated in a similar manner and the amounts of complex formed are compared. A significantly greater formation of complex in the suspect sample as compared with that of the control is indicative of Alzheimer's disease. The disease can also be detected by comparing the degrees of phosphorylation of band 3 or its degradation products in suspect and control samples. A significant decrease in phosphorylation in the suspect sample indicates Alzheimer's disease This is an aging antigenic band 3 peptide (residues 526-541) to which a specific antibody can bind to. Band 3 is a ubiquitous anion-exchange protein and ages as cells and tissues age. Antibodies have been developed against this aged band 3. These antibodies bind to distinct regions of band 3 in old cells (aging antigenic sites) but not middle aged or young cells. This can be used for detecting Alzheimer's disease. A tissue sample containing band 3 from a patient suspected of having Alzheimer's disease is treated with an antibody that can differentiate between the Alzheimer's (aged) and normal band 3, under complex forming conditions and detecting any complex formed. A tissue containing band 3 from a Gaps 0; Indels Length 16; ő 57.1%; Score 8; DB 2; 100.0%; Pred. No. 0.15; iive 0; Mismatches 8; Conservative 9 YETFSKLI 16 ω Query Match Best Local Similarity Matches 8; Conserv 1 YETFSKLI Sequence 16 AA; ઠે

aged band 3

Detecting Alzheimer's disease using antibody that recognises a protein in tissues - or from reduced degree of band 3 protein phosphorylation, can be applied to blood or brain samples.

Disclosure, Page 11, 45pp, English.

(RESE) RESEARCH CORP TECHNOLOGIES INC.

WPI; 1997-385478/35.

96WO-US020465

13-DEC-1996; 19-JAN-1996;

24-JUL-1997.

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The present invention describes a method for enhancing thrombolysis in a mammal. The method comprises the administration to the mammal an amount of an inhibitor (1) of protein band 3-ligand interaction sufficient to enhance thrombolysis. (I) has thrombolytic activity. The method is useful for enhancing thrombolysis in a mammal. (I) is useful for enhancing thrombolytic activity, in the management of acute myocardial infarction, for lysis of intracoronary thrombi, for improvement of ventricular function, for reduction of congestive heart failure, for reduction of mortality, for the lysis of pulmonary emboli blocking blood flow to one or more lobes of the lung, for the lysis of acute arterial thrombosis and embolism, for the lysis of thrombosis in clotted blood or fibrin, to prevent clot formation of lysing clots, to prevent clotting in blood samples drawn from patients for clinical testing and to prevent the recurrence of thrombosis in patients by protein-ligand interaction inhibitor peptide, which is used in the exemplification of the present invention Sequence 15

5.1.6	Compugen Ltd.
version	- 2005
GenCore	(c) 1993
	Copyright

OM protein - protein search, using sw model

August 26, 2005, 15:50:52; Search time 39 Seconds (without alignments) 34.539 Million cell updates/sec Run on:

US-10-663-215-5 14 1 YETFSKLIKIFQDH 14 Title: Perfect score: Sequence:

OLIGO Gapop 60.0 , Gapext 60.0 Scoring table:

283416 seqs, 96216763 residues Searched:

0 Word size :

7379 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 14 Maximum DB seq length: 40

Post-processing: Listing first 45 summaries

Database :

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		•			SUMMAKIES	
Result No.	Score	* Query Match	Length	DB	ID	Description
-		1 0		! '	DH0203	
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7	4	28.6	0	N	C49753	hypothetical prote
e	4	28.6	23	N	S51188	aldehyde dehydroge
4	4		28	~	S15235	hypothetical prote
ស	4	28.6	34	~	F81044	_
9	4	28.6	35	N	C70229	
7	4	28.6	35	~	A60496	o
80	4	28.6	36	~	872299	ribosomal protein
D	4	28.6	37	7	G71351	probable ribosomal
10	4	28.6	m	(1)	A82439	hypothetical prote
11	4	28.6	39	7	H81081	
12	4	28.6	39	~	F97313	
13	4	28.6	æ	~	G85837	
14	4	28.6	4	7	S20773	
15	4	28.6	4	N	S09481	
16	4	28.6	40	N	T07196	
17	m	21.4	14	~	B29743	
18	m	21.4	14	~	PH1763	T cell receptor al
19	m	21.4	14	N	PH0800	
20	m	21.4	14	~	PH0801	T-cell receptor al
21	Ю	21.4	14	~	G33160	H+-transporting tw
22	e	21.4	14	~	A39239	actin 8 - slime mo
23	m	21.4	15	N	PH1762	
24	m	21.4	-	N	S47367	ď
25	m	21.4	15	~	S47387	
26	m	21.4	15	~	PH0808	
27	Ю	21.4	15	~	PH0797	Š
28	m	21.4	15	~	803353	
29	Ю	21.4	15	N	PA0110	translation elonga

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	r cell receptor al
\$34444 \$50256 \$51771 \$51733 \$35627 \$35627 \$35627 \$3689 \$165274 \$165274 \$165274 \$16453 \$164733 \$164733	PH1/89
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ALIGNMENTS

	RESULT 1
	PH0782
	T-cell receptor alpha chain (H3 V-alpha-10. TA57) - mouse (fragment)
	C;Species: Mus musculus (house mouse)
	C;Date: 17.Jul-11992 #sequence_revision 17.Jul-1992 #text_change 30-May-1997
	C.Accession: FOUNDS
	Kichellova, J.L.; Komelo, F.; Midmain, C.; Adulisky, F.; Malyaneri, G.E. J. Frr. Med 174, 1371-1383, 1991
	A:Title: T cell receptor genes in a series of class I major histocompatibility complex-re
	allelic exclusion and antigen-specific repertoire.
	A;Reference number: PH0746; MUID:92078846; PMID:1836010
	A; Accession: PH0782
	A MOLECULE CYDE: MKNA A Doctioner 1-15 / Arc
	A CREATMENT TO COLOR
	AALTOBELELETEGES: EMBLIAGOUSS A-Rinorimental source: T lymphoryte
	A; Note: the authors translated the codon TTC for residue 6 as Leu
	C;Keywords: T-cell receptor
	Ouery Match 28.6%; Score 4; DB 2; Length 15;
	Similarity 100.0%; Pred. No. 3.2e+Conservative 0: Mismatches
	Qy 5 SKLI 8
	Db 10 SKLI 13
	RESULT 2
	(44)53 hvoothatical nantein (nang 6, region) - Servatia marregeneng (fragment)
	Aspectes: Servicia marcescens
	C;Date: 07-Apr-1994 #sequence revision 07-Apr-1994 #text_change 09-Jul-2004
•	C; Accession: C49753; S11643
	R;Omori, K; Suzuki, S.I.; Imai, Y.; Komatsubara, S.
	 J. Gen. MICTOBIOLI, 13/, 30/-31/, 1394. J. Witi-la. Brailveis of the Certafia marcescene nroRb oneron and feedback control of proline
	A. Reference number: A49753; MUID: 91237315; PMID: 1981803
	A; Accession: C49753
	A, Molecule type: DNA
	A;Residues: 1-20 <omo></omo>
	A;Cross-references: UNIPROT:P22581; GB:X53086; NID:g47251; PIDN:CAA37253.1; PID:g47252
	28.6%;
•	cal Similarity 100.0%; Pred. No. 4e+02;
	Macches 4; Conservative 0; Mismacches 0; inders 0; Gaps 0;

Length 34;

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28.6%; S
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                                                                                                                                         4; Conservative
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A;Residues: 1-35 <WAR>
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Matches 4; Conserv
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Best Local Similarity
Matches 4; Conserv
                                                                  Query Match
Best Local Similarity
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A; Residues: 1-35 < KLE>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Genome: plasmid
A;Gene: NMB1778
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F8104
hypothetical protein NMB1778 [imported] - Neisseria meningitidis (strain MCS8 serogroup C; Species: Neisseria meningitidis
C; Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 09-Jul-2004
C; Accession: F81044
R; Tettelin, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.; Eisen, J.R. Hickey, E.K.; Haft, D.H.; Salzberg, S.L.; White, O.; Fleischmann, R.D.; Dougherty, B.A.; ri, H.; Olin, H.; Vamahevan, J.; Gill, J.; Scarlato, V.; Masignani, V.; Pizza, M. Science 287, 1809-1815, 2000
A; Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.M.; Moxon, E.R.; Rappuoli, R.; Ve A; Teterence number: A81000; MUID:20175755; PMID:10710307
A; Reference number: A81004
A; Scattain F8104
A; Scattain pression: F8104
A; Scattain F8104
A; Seadues: 1-34 <-TET>
A; Residues: 1-34 <-TET>
A; Residues: 1-34 <-TET>
A; Cross references: UNIPROT:Q9UV24; GB:AE002207; GB:AE002098; NID:g7227023; PIDN:AAF4211
A; Experimental source: serogroup B, strain MCS8
C; Genetics:
                  Silent Si
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A;Residues: 1-28 <PER>
A;Cross-references: UNIPROT:P23205; EMBL:X54201; NID:g45324; PIDN:CAA38121.1; PID:g45325
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hypothetical protein - Pseudomonas aeruginosa
C;Species: Pseudomonas aeruginosa
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 09-Jul-2004
C;Accession: 515235
R;Perry, A.C.F.; Bhriain, N.N.; Brown, N.L.; Rouch, D.A.
Mol. Microbiol. 5, 163-171, 1991
A;Title: Molecular characterization of the gor gene encoding glutathione reductase from
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100.0%; Pred. No. 5.3e+02;
tive 0; Mismatches 0; Indels
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A;Accession: S15235
A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28.6%; Score 4; DB 2; Le 100.0%; Pred. No. 4.5e+02;
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Matches 4; Conservative
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C;Accession: C70229
R;Fraser, C.M.; Casjens, S.; Huang, W.M.; Sutton, G.G.; Clayton, R.; Lathigra, R.; White, son, D.; Peterson, J.; Kerlavage, A.R.; Quackenbush, J.; Salzberg, S.; Hanson, M.; Vugt, Bowman, C.; Garland, S.; Fujii, C.; Cotton, M.D.; Horst, K.; Roberts, K.; Hatch, B. A;Authors: Smith, H.O.; Venter, J.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: UNIPROT:051019; GB:AE000794; NID:g2689981; PIDN:AAC66379.1; PID:g2685
A;Experimental source: strain B31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Warr, G.W.
Dev. Comp. Immunol. 14, 247-253, 1990
A;Title: A 12 For protein in chicken serum antigenically cross-reactive with, but unrelat
A;Reference number: A60496; MUID:90316337; PMID:2196188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: UNIPROT:Q7LZS1
C;Comment: This protein resembles beta-2 microglobulin in its size, its presence in serun
C;Keywords: plasma
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A,Reference number: A70100; MUID:98065943; PMID:9403685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A,Accession: C70229
A,Status: preliminary; nucleic acid sequence not shown; translation not shown
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ribosomal protein 136 - Plasmodium falciparum plastid
C;Species: plastid Plasmodium falciparum
C;Date: 14-Apr-1998 #sequence_revision 24-Apr-1998 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                  hypothetical protein BBF11 - Lyme disease spirochete plasmid F/lp28-1
C;Species: Borrelia burgdorferi (Lyme disease spirochete)
C;Date: 13-Feb-1998 #sequence_revision 13-Feb-1998 #text_change 09-Jul-2004
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C;Species: Gallus gallus (chicken)
C;Date: 19-Mar-1993 #sequence_revision 19-Mar-1993 #text_change 09-Jul-2004
C;Accession: A60496
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Pred. No. 6.4e+02;
                      Score 4; DB 2; Le
Pred. No. 6.3e+02;
28.6%; Sco...
100.0%; Pred. No. co...
0; Mismatches
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100.0%; Pred. No. 6.4
:ive 0; Mismatches
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P82945 Q8clv6

homo sapien plasmodium

Run on:

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SEQUENCE FROM N.A.
PubMed=14762063; DOI=10.1101/gr.1329204;
Halligan D.L., Exre-Walker A., Andolfatto P., Keightley P.D.;
"Patterns of evolutionary constraints in intronic and intergenic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Erdmann V.; "Sequence of the tufA gene encoding elongation factor EF-Tu from Thermus aquaticus and overproduction of the protein in Escherichia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bacteria; Deinococcus-Thermus; Deinococci; Thermales; Thermaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                           Diosopnila simulans (Fruit 11y).
Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Voss R.H., Hartmann R.K., Lippmann C., Alexander C., Jahn O.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28.6%; Score 4; DB 2; Length 14; 100.0%; Pred. No. 2.1e+03; tive 0; Mismatches 0; Indels
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BEG THEAD

AC 001697;

DT 01-JUL-1993 (Rel. 26, Created)

DT 01-JUL-1993 (Rel. 26, Last sequence update)

DT 05-JUL-2004 (Rel. 34, Last annotation update)

DE BEDOAGATION factor G (EF-G) (Fragment).
                                                                                                                                                                                                                                                           ALIGNMENTS
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Q8JDL5
P82945
Q8CLV6
Q83WY0
Q86UM9
Q76UM9
Q84LU3
Q84LU5
Q84LU7
Q84LV2
Q84LV4
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100.0%; Pre
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Genome Res. 14:273-279(2004).
EMBL; AY459579; AAR23030.1; -.
NON TER 14 14
SEQÜENCE 14 AA; 1590 MW; 91
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 NCBI_TaxID=7240;
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05-JUL-2004
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                GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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                                                                                                                                                                                                                                                                                         1612378 segs, 512079187 residues
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Q905K7
YPRB SERMA
Q95MJ7
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Gapop 60.0 , Gapext 60.0
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Q8JDL0
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1: uniprot_sprot:*
2: uniprot_trembl:*
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Perfect score:
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Omori K., Suzuki S., Imai Y., Komatsubara S.;
"Analysis of the Serratia marcescens proBA operon and feedback control
                                                                                                                                                                                                                                                                                            MEDLINE=21663216; PubMed=11804559; DOI=10.1089/088922202753394745; Taniguchi Y., Takehsia J., Bikandou B., Mboudjeka I., Takehsia J., Bikandou B., Mboudjeka I., Takehsia J., Bikandou B., Mboudjeka I., Taniguchi Y., Takehsia J., Lobendui M., Morele P., Harada Y., Ido B., Hayami M., Ichimura H., Parra H.Joseph.; Mr Pelle P., Harada Y., "Genetic subtypes of HIV type I based on the vpu/env sequences in the Republic of Congo.", Tanigua I8:79-83 (2002).

AIDS Res. Hum. Retroviruses 18:79-83 (2002).

EMBL; AF410437; AAL10215.1; -. GO; GO:00042025; Chost cell nucleus; IEA.

GO; GO:0003555; P:reanscription factor activity; IEA.

GO; GO:0006355; P:reanscription of transcription, DNA-dependent; IEA.
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Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
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NON TER 19 19 19
SEQUENCE 19 AA; 2176 MW; 3516A49DA9711856 CRC64;
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                              01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-UNN-2003 (TrEMBLrel. 24, Last annotation update)
Rev pricein (Fragment).
Human immunodeficiency virus 1.
Viruses; Retroid viruses; Retroviridae; Lentivirus.
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01-AUG-1991 (Rel. 19, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Hypothetical protein in proB 5'region (Fragment).
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J. Gen. Microbiol. 137:509-517(1991).
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Best Local Similarity luv...
4; Conservative
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Hypothetical protein.
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                                                                                                                                                                                                            NCBI_TaxID=11676;
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            ACCOMMENTATION OF STATE OF STA
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                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation-the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                           Eur. J. Biochem. 207:839-846(1992).
-1- FUNCTION: This protein promotes the GTP-dependent translocation of the nascent protein chain from the A-site to the P-site of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
MEDLINE=99152621; PubMed=10028295;
Dowton M., Austin A.D.;
"Evolutionary dynamics of a mitochondrial rearrangement 'hot spot' in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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Neopeta; Endopeerygota; Hymenoptera; Apocrita; Aculeata; Vespoidea;
Formicidae; Myrmeciinae; Myrmeciini; Myrmecia.
NCBI_TaxID=32387;
                                                                                                                                            SUBCELLULAR LOCATION: Cytoplasmic. SIMILARITY: Belongs to the GTP-binding elongation factor family.
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InterPro; IPR000795; ProtSyn GTPbind.
PROSITE; PS00301; EFACTOR GTP; PARTIAL.
Blongation factor; GTP-binding; Protein biosynthesis.
NON_TER 1 1 1
SEQUENCE 17 AA; 2094 MW; EA46EIEF05F86EID CRC64;
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100.0%; Pred. No. ...
0; Mismatches
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EMBL; AF034604; AAC79752.1; -.
GO; GO:0005739; C:mitochondrion; IEA.
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Best Local Similarity 100.
Matches 4; Conservative
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RESULT 4 Q905K7 ID Q9051

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Sequence 1, Appli
Sequence 15, Appli
Sequence 20, Appli
Sequence 20, Appli
Sequence 6, Appli
Sequence 17, Appli
Sequence 11, Appli
Sequence 11, Appli
Sequence 412, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 26, Appli
Sequence 26, Appli
Sequence 113, Appli
                                                                                             August 26, 2005, 15:51:37 ; Search time 41 Seconds (without alignments) 25.490 Million cell updates/sec
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.: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
.: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
.: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
.: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
.: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
5.1.6
Compugen Ltd.
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US-08-405-647B-8
US-09-389-603-15
US-09-189-603-15
US-08-614-935-20
US-08-614-935-20
US-08-614-935-20
US-08-614-935-20
US-08-437-943D-19
US-08-311-611A-113
US-08-312-105-113
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                                                                                                                                                                                                                                                                                      513545 seqs, 74649064 residues
GenCore version
Copyright (c) 1993 - 2005
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                                                                  OM protein - protein search, using sw model
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Gapop 60.0 , Gapext 60.0
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Match Length
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                                                                                                                                                                     Title:
Perfect score:
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                                                                                                                                                                                                                                                                                                                     Word size :
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                                                                                                  Run on:
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45, Appl
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Sequence
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APPLICANT: Shohet, Irwin
APPLICANT: Sheman, Irwin
APPLICANT: Sheman, Irwin
APPLICANT: Sheman, Irwin
APPLICANT: Sheman, Irwin
ATILE OF INVENTION: Mammal
NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STREET: California
COUNTRY: USA
                                                                                   Sequence
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Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OPERATING SYSTEM: PC-LUGS MB-LUGS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,499
FILING DATE: 05-DEC-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Hyman. Lawrence J.
REGISTRATION NUMBER: 35,551
REFERENCE/DOCKET NUMBER: 02307E-084500US
TELEPHONE: (415) 576-0300
TELEPHONE: (415) 576-0300
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
TEMPORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
                      US-08-480-190-228

US-08-621-803-97

US-08-637-7588-45

US-08-637-7588-45

US-08-877-358-45

US-08-877-358-45

US-08-113-33

US-09-119-263-113

US-09-119-263-113

US-09-035-686-20

US-09-035-686-21

US-09-035-686-21
                                                                                                                                                                                                                                                                                         ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                              Sequence 8, Application US/08985499 Patent No. 6191103 GENERAL INFORMATION:
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Best Local Similarity
Matches 9; Conserva
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50.0%; Score 7; DB 5;
100.0%; Pred. No. 0.22;
iive 0; Mismatches
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100.0%; Pred. No. 35;
tive 0; Mismatches
COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 4
US-09-389-603-15
Sequence 15, Application US/09389603
Patent No. 6737234
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US-07-686-116A-3
Sequence 3, Application US/07686116A
Patent No. 5225399
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Best Local Similarity 100.v
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Best Local Similarity 100.
Matches 7; Conservative
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GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: The RED GENERAL SEPTICANT: The RED GENERAL SEPTICANT: The RED INVENTION: COMPOSITIONS AND METHODS FOR REDUCING TITLE OF INVENTION: ADHESIVENESS OF DEFECTIVE RED BLOOD CELLS NUMBER OF SEQUENCES: ADDRESSE: Robbins, Berliner & Carson STREET: 201 North Figueroa Street, Suite 500 CITY: Los Angeles STATE: California COUNTRY: USA STATE: California COUNTRY: USA STATE: CALIfornia COUNTRY: USA
                                                                                                                               APPLICANT: Sherman, Irwin W.
APPLICANT: Crandall, Ian E.
APPLICANT: Crandall, Ian E.
APPLICANT: Sholet, Stephen B.
APPLICANT: Thevenin, Bernard Jean-Marie
TITLE OF INVENTION: Compositions and Methods for Reducing
TITLE OF INVENTION: Adhesiveness of Defective Red Blood Cells
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
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                                                                                                                                                                                                                                                                                                                                                                          COUNTRY: USA
ZIP: 94111-3834
COMPUTER RADABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM FC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/405,647B
FILING DATE: 17-MAR-1995
CLASSIFICATION: 514
ATTOREY/AGBNT INFORMATION:
NAME: Weber, Kenneth A.,
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 31,677
FELEPHONE: (415) 576-0300
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE (HARACTERISTICS:
LENGTH: 15 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 3;
lo. 0.22;
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100.0%; Pred. No. 0.2
tive 0; Mismatches
                                                                        Sequence 8, Application US/08405647B; Patent No. 6124262; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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Best Local Similarity 100.
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PCT-US96-03180-8
                                                         US-08-405-647B-8
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GENERAL INFORMATION:
APPLICANT: Freimuth, Paul I
APPLICANT: Freimuth, Paul I
APPLICANT: Flanagan, Azia C.
TITLE OF INVENTION: STRUCTURE OF ADENOVIRUS BOUND TO CELLULAR RECEPTOR CAR
FILE REFERENCE: CIP OF BLL2007
CURRENT APPLICATION NUMBER: US/09/389,603
EARLIER APPLICATION NUMBER: 09/236,423
EARLIER FILING DATE: 1999-01-25
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 15
LENGTH: 18
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APPLICANT: Kari, U. Prasad
APPLICANT: Maloy, W. Lee
APPLICANT: Zasloff, Michael
APPLICANT: Zasloff, Michael
TITLE OF INVENTION: No. 5225399el Biologically Active Peptide
TITLE OF INVENTION: Compositions and Uses Therefor
NUMBER OF SEQUENCES: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Indels
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SCFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/03180
FILING DATE:
CLASSIFICATION:
ATTONREY/AGENT INFORMATION:
NAME: Berliner, Robert:
REGISTRATION NUMBER: 20,121
REGISTRATION NUMBER: 2555-370
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 977-1003
TELEPHONE: (213) 977-1003
TELEPHONE: CLASSIFICS: SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
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Sequence

Sequence 39, Appl Sequence 40, Appl Sequence 42, Appl Sequence 43, Appl Sequence 45, Appl Sequence 19, Appl Sequence 19, Appl Sequence 194326, Sequence 194326, Sequence 194326, Sequence 194326, Sequence 19523, Sequence 216523, Sequence 4974, Appl Sequence 47, Appl Sequence 30, Appl Sequence 13, Appl Sequence 13, Appl Sequence 13, Appl Sequence 13, Appl Sequence 16, Appl

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Word size :

Searched:

Database :

Title: Perfect score:

Sequence:

OM protein

Run on:

Scoring table:

Sequence 137, App Sequence 218, App Sequence 131, App Sequence 620, App

Sequence 97, Appl Sequence 6, Appli Sequence 4, Appli

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US-10-63-215-5

US-10-63-215-5

Sequence 5, Application US/10663215

Sequence 5, Application No. US20050059588A1

Sequence 5, Application No. US20050059588A1

Sequence 5, Application No. US20050059588A1

APPLICANT: Winograd, Enrique

APPLICANT: The Regente of the University of California

APPLICANT: The Regente of the University of California

TITLE OF INVENTION: Peptides Which Generate Antibodies Resulting in Lysis

TITLE OF INVENTION: OF Pathologically Adherent Erythrocytes

TITLE REFERENCE: 023070-140500US

CURRENT APPLICATION NUMBER: US/10/663,215

CURRENT FILING DATE: 2003-09-15

NUMBER OF SEQ ID NOS: 23

SEQ ID NOS: 23

SEQ ID NOS: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
OTHER INFORMATION: Description of Artificial Sequence:preferred
OTHER INFORMATION: native AEI sequence, peptide including two
OTHER INFORMATION: residues on either side of predicted alpha-helix
5 US-10-465-789A-49
0 US-11-033-489-49
0 US-11-033-489-49
0 US-10-210-108-13
6 US-10-425-115-216756
4 US-10-142-238A-40
0 US-10-142-238A-41
1 US-10-142-238A-43
1 US-10-142-238A-43
1 US-10-142-238A-44
1 US-10-142-238A-43
1 US-10-142-239-216523
1 US-10-271-078-30
2 US-10-271-078-30
2 US-10-271-078-30
2 US-10-271-078-30
2 US-10-865-478-839
7 US-10-874-923-18
7 US-10-874-923-218
8 US-10-862-195-620
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100.0%; Pred. No. 1.5e-07;
tive 0; Mismatches 0;
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US-09-732-384-6
US-09-818-564-4
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ORGANISM: Artificial Sequence
       1 YETFSKLIKIFQDH 14
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                                                                                                                                                                        August 26, 2005, 15:54:28; Search time 158 Seconds (without alignments) 34.816 Million cell updates/sec
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1: /cgn2_6/ptodata/1/pubpaa/PCT_TRW PUB. Pepp:*

2: /cgn2_6/ptodata/1/pubpaa/PCT_TRW PUB. Pepp:*

3: /cgn2_6/ptodata/1/pubpaa/PCT_TRW PUB. Pepp:*

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US-10-874-923-194
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US-10-142-238A-33
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US-10-142-238A-35
US-10-142-238A-35
US-10-142-238A-36
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Copyright (c) 1993 - 2005
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Sequence 182, Application US/10874923

Publication No. US20050032166A1

GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company

TITLE OF INVENTION: POLYNUCLECTIDES ENCODING NOVEL ADIPONECTIN RECEPTOR VARIANTS

TURENCE: D0338 NP

CURRENT APPLICATION NUMBER: US/10/874,923

CURRENT FILING DATE: 2004-06-23

PRIOR APPLICATION NUMBER: U.S. 60/482,324

PRIOR APPLICATION NUMBER: U.S. 60/486,036

PRIOR PILING DATE: 2003-07-10

PRIOR PELING DATE: 2003-07-10

PRIOR PILING DATE: 2003-07-10

PRIOR PILING DATE: 2003-07-10

PRIOR PILING DATE: 2003-03-08-04

PRIOR PILING DATE: 2003-03-08-04

PRIOR PILING DATE: 2003-03-08-04

PRIOR PILING DATE: 2003-10-02

PRIOR PILING DATE: 2004-03311

NUMBER OF SEQ ID NOS: 248

SOFTWARE: PatentIn version 3.3

SEQ ID NO 182

LENTH: 15
Sequence 194, Application US/10874923
Sequence 194, Application US/10874923
Fublication No. US20050032166A1
GENERAL INFORMATION:
FUBLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: POLYNUCIEOTIDES ENCODING NOVEL ADIPONECTIN RECEPTOR VARIANTS
FILE REFERENCE: D0338 NP
CURRENT PELLING DATE: 2004-06-23
FRIOR APPLICATION NUMBER: U.S. 60/482,324
FRIOR APPLICATION NUMBER: U.S. 60/486,036
FRIOR APPLICATION NUMBER: U.S. 60/492,470
FRIOR FILING DATE: 2003-07-10
FRIOR FILING DATE: 2003-10-02
FRIOR PRILING DATE: 2003-10-02
FRIOR PELLING DATE: 2003-10-02
FRIOR FILING DATE: 2004-03-11
NUMBER OF SEQ ID NOS: 248
SOFTWARE: PatentIn version 3.3
SEQ ID NO 194
LENGTH: 14
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; ORGANISM: Rattus norvegicus
US-10-874-923-182
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                                                                                 August 26, 2005, 16:08:10 ; Search time 174 Seconds (without alignments) 41.202 Million cell updates/sec
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Q9uey5
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GenCore version 5.1.6
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                                                                                                                                                                                                                                              1612378 segs, 512079187 residues
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Q7ZZJ7
Q98FW2
Q99LTS
B3A2_RAT
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41 82.0 196 2 0953B8 40 80.0 55 2 064CG1 40 80.0 197 2 0953A5 40 80.0 293 2 035403 40 80.0 316 2 095FS6 40 80.0 864 1 MSLE YEAST 40 80.0 844 2 090579 40 80.0 1547 2 070V96 39 78.0 132 2 0955KS 39 78.0 191 2 0953B7 39 78.0 191 2 0953B7 39 78.0 193 2 0953B7	PRELIMINARY; PRT; 849 AA. (TEMBLE-1. 19, Created) (TERMELrel. 19, Last sequence update (TERMELrel. 19, Last sequence update (TERMELrel. 26, Last annotation updane exchange protein. egicus (Rat). Metazoa; Chordata; Craniata; Vertebra (Rat). Metazoa; Chordata; Craniata; Vertebra (Antheria; Rodentia; Sciurognathi; Muri). DM N.A. DM N.A. MRR-2001) to the EMEL/GenBank/DDBJ dager 2001; Crembrane; IEA. 0; IBTS. 0020; AAX38733.1; 0105; Finorganic anion exchanger acti 200; Pianion transport; IEA. 55; HCOJ_Cotransp; 1. 1187; ANIONEXCHNGR. 1187; ANIONEXCHNGR. 1187; ANIONEXCHNGR. 1187; ANIONEXCHNGR. 1187; ANIONEXCHNGR. 1187; ANIONEXCHNGR. 1188; ANIONEXCHNGR. 1189; ANION EXCHANGER_1; 1. 100219; ANION EXCHANGER_2; 1. 002219; ANION EXCHANGER_2; 1.	imilarity 64.3%; Score 50; DB 2; Conservative 5; Mismatches 0; XYTPSXLIXIFQXX 14 :
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PHOSPHORYLATION SITES TYR-8; TYR-21; TYR-359 AND TYR-904.
MEDLINE=20400020; PubMed=10942405;
Brunati A.M., Bordin L., Clari G., James P., Quadroni M., Baritono E.,
                                                                  MEDLINE=90083213; PubMed=2594752;
Lux S.E., John K.M., Kopito R.R., Lodish H.F.;
"Cloning and characterization of band 3, the human erythrocyte anion-
                                                                                                                                                                                                                                                 MEDLINE=89134172; PubMed=3223947;
Tanner M.J.A., Martin P.G., High S.;
"The complete amino acid sequence of the human erythrocyte membrane anion-transport protein deduced from the cDNA sequence.";
Biochem. J. 256:703-712(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE-83308584; PubMed=6615451;
Brock C.J., Tanner M.J.A., Kempan C.;
"The human erythrocyte anion-transport protein. Partial amino acid
sequence, conformation and a possible molecular mechanism for anion
                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE OF 1-199; 220-292 AND 347-370.

MEDLINE=90001294; PubMed=2790053; DOI=10.1016/0167-4838(89)90116-7; Yannoukakos D., Vasseur C., Blouguit Y., Bursaux E., Wajcman H.; Primary structure of the cytoplasmic domain of human erythrocyte protein band 3. Comparison with its sequence in the mouse."; Biochim. Biophys. Acta 998:43-49(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE-8123835; PubMed-6345535;
Kaul R.K., Murthy S.N.P., Reddy A.G., Steck T.L., Kohler H.;
Kaul R.K., Murthy S.N.P., Reddy A.G., Steck T.L., Kohler H.;
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Manion-proton corransport through the human red blood cell band protein. Role of glutamate 681.";
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                                                                                                                                     exchange protein (AE1).";
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Asian ovalocytosis."; Cohen C.M.; "Band 3 Tuscaloosa: Pro-327-->Arg substitution in the cytoplasmic meand 3 Tuscaloosa: Pro-327-->Arg substitution in the cytoplasmic domain of erythrocyte band 3 protein associated with spherocytic hemolytic anemia and partial deficiency of protein 4.2."; Blood 80:523-529(1992) MEDLINE=92167271; PubMed=1538405; Schofield A.E., Tanner M.J.A., Pinder J.C., Clough B., Bayley P.M. Nash G.B., Dluzewski A.R., Reardon D.M., Cox T.M., Wilson R.J.M., Gratzer W.B.; "Changes in the blood group Wright antigens are associated with a mutation at amino acid 658 in human erythrocyte band 3: a site of interaction between band 3 and glycophorin A under certain Bruce L.J., Ring S.M., Anstee D.J., Reid M.E., Wilkinson S., VARIANT HE 400-ALA--ALA-408 DEL, AND VARIANT MEMPHIS GLU-56. VARIANT HS ARG-327. MEDLINE-92329950; PubMed=1378323; Jarolim P., Palek J., Rubin H.L., Prchal J.T., Korsgren C., "Basis of unique red cell membrane properties in hereditary MEDLINE-93229758; Pubmed-8471774; Rybicki A.C., Qiu J.J.H., Musto S., Rosen N.L., Nagel R.L., Proc. Natl. Acad. Sci. U.S.A. 88:11022-11026(1991) VARIANT BLOOD GROUP WR (A). MEDLINE=95111140; PubMed=7812009; Mol. Biol. 223:949-958(1992). VARIANT HE 400-ALA--ALA-408 DEL. Biochem. J. 293:317-320(1993) VARIANT MONTEFIORE LYS-40 lood 81:2155-2165(1993). Blood 78:1117-1120(1991). VARIANT MEMPHIS GLU-56 Schwartz R.S.; ovalocytosis." Tanner M.J.;

5.1.6 Compugen Ltd. GenCore version Copyright (c) 1993 - 2005

- protein search, using sw model OM protein August 26, 2005, 16:05:19 ; Search time 69 Seconds Run on:

(without alignments) 78.473 Million cell updates/sec

1 YXTFSXLIXIFQXX 14 US-10-663-215-6 50 score: Sequence:

Scoring table:

BLOSUM62DX Gapop 10.0 , Gapext 0.5

2105692 Total number of hits satisfying chosen parameters: 2105692 segs, 386760381 residues Searched:

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geneseqp2003as:* geneseqp2003bs:* geneseqp2000s:* geneseqp2001s:* geneseqp2002s:* geneseqp2004s:* Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STIMMARIES

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0780018mmmmmmmm4444	44

ALIGNMENTS

AAW01093 standard; peptide; 58 AA

AAW01093;

(first entry) 08-MAY-1997

Exofacial region loop 3 of band 3 protein (residues 520-577).

Anion transporter band 3 protein; endothelial adhesion; red blood cell; cytoplasmic domain; erythrocyte; exofacial loop; epitope; antibody; mammal; plasmodium falciparum infection; sickle cell disease; diabetes; band 3; thalassaemia; anaemia; therapy.

Synthetic.

WO9629086-A1.

26-SEP-1996.

96WO-US003180. 07-MAR-1996; 95US-00405647. 17-MAR-1995;

(REGC) UNIV CALIFORNIA.

Crandall IE,

Thevenin BJ; Shohet SB, Sherman IW,

WPI; 1996-442944/44.

Peptide(8) with amino acid motifs in band 3 - used for reducing the adhesiveness of red blood cells for treating malaria, sickle cell disease, thalassemia or diabetes.

Example 2; Page 20; 48pp; English.

AAW01053-W01095 represent peptides isolated from (or based on) regions of the anion transporter band 3 protein. The band 3 protein is present in a million copies per red blood cell, in the form of monomers, dimers, or tetramers. Band 3 protein has two distinct domains, a 43 kD water-soluble cytoplasmic domain, and a 55 kD membrane spanning domain. In an number of otherwise-unrelated conditions (such as malaria, and diabetes), there are modifications in band 3, such that there is clustering and a change in the conformation (and by the exposure of cryptic adhesive sites), the normally non-adherent erythrocyte becomes a cell with enhanced endothelial adhesiveness. These sequences were found in the putative

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The present invention describes a method for enhancing thrombolysis in a mammal. The method comprises the administration to the mammal an amount of an inhibitor (I) of protein band 3-ligand interaction sufficient to enhance thrombolysis. (I) has thrombolytic activity. The method is useful for enhancing thrombolysis in a mammal. (I) is useful for enhancing thrombolytic activity. The method is useful for enhancing thrombolytic activity. In the management of acute or thrombolytic activity, in the management of acute or thrombolytic plais of intracoronary thrombi, for improvement of ventricular function, for reduction of congestive heart improvement of ventricular function, for the lysis of blocking blood flow to one or more lobes of the lung, for the lysis of acute arterial thrombosis and embolism, for the lysis of thrombosis in deep venis or in cerebral sinuses, to reopen i.v. catheters obstructed by clotted blood or fibrin, to prevent clot formation of lysing clots, to prevent clotting in blood samples drawn from patients for clinical testing and to prevent the recurrence of thrombosis in patients by prophylactic administration. The present sequence represents a human band synchain practication of the present invention cerepresents a human band exemplification of the present invention
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exofacial loops of band 3, and are epitopes for antibody binding. These sequences compete with the altered band 3 protein, and tharbby block the adhesiveness of the red blood cells. The peptides can be used for reducing the adhesiveness of red blood cells in a mammalian patient
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                                                                              characterised by a condition selected from Plasmodium falciparum infection, sickle cell disease, thalassaemia and diabetes
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The invention relates to novel human secreted polypeptides. The polypeptides and antibodies to the polypeptides are useful for determining the presence of or predisposition to a disease associated determining the presence of or predisposition to a disease associated with altered levels of polypeptide. The polypeptides are also useful for identifying agents (agonists and antagonists) that bind to them. Cells expressing the proteins are useful for identifying a therapeutic agent of a pathology related to aberrant expression or physiological interactions of the polypeptide. Vectors comprising the nucleic acids encoding the polypeptides and cells genetically engineered to express them are also useful for producing the proteins. The proteins are useful in genetic vaccination, testing and therapy, and can be used as nutritional supplements. They may be used to increase stem cell cand/or nerve tissue growth or regeneration; immune suppression and/or simulation, as anti-inflammatory and in bone, cartilage, tendon cill simulation, as anti-inflammatory and and in reatment of leukaemias. ANU29510-AAU33304 represent the amino acid sequences of novel human
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stem cell proliferation; haematopoiesis; nerve tissue regeneration;
immune suppression; immune stimulation; anti-inflammatory; leukaemia.
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                                             Length 58;
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GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd. Copyright

OM protein - protein search, using sw model

Run on:

August 26, 2005, 16:08:55 ; Search time 38 Seconds (without alignments) 35.448 Million cell updates/sec

US-10-663-215-6 50 score: Title: Perfect

1 YXTFSXLIXIFQXX 14 Sequence:

Scoring table:

283416 seqs, 96216763 residues BLOSUM62DX Gapop 10.0 , Gapext 0.5 Searched:

283416 Total number of hits satisfying chosen parameters:

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Description Query Score Match Length DB No.

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ALIGNMENTS

A33810 band 3 anion transport protein - rat

C;Species: Rattus norvegicus (Norway rat) C;Date: 09-Mar-1990 #sequence_revision 09-Mar-1990 #text_change 09-Jul-2004

C;Accession: A31310
R;Kudrycki, K.E.; Shull, G.E.
J. Biol. Chem. 264, 8185-8192, 1989
A;Title: Primary structure of the rat kidney band 3 anion exchange protein deduced from 8 A;Title: Primary structure of the rat kidney band 3 anion exchange protein deduced from 8 A;Title: Primary structure of the rat kidney band 3 anion exchange protein deduced from 8 A;Reference number: A33810
A;Crecession: A33810
A;Crecession: A33810
A;Residues: Delainary
A;Residues: 1-848
A;Residues: UNIPROT:P23562; GB:J04793; NID:g203092; PIDN:AAA40800.1; PID:g203093
C;Superfamily: band 3 anion transport protein
C;Keywords: alternative splicing; transmembrane protein

Gaps ö Query Match
100.0%; Score 50; DB 2; Length 848;
Best Local Similarity 64.3%; Pred. No. 0.93;
Matches 9; Conservative 5; Mismatches 0; Indels

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RESULT 2

Dand 3 anion transport protein, erythrocyte - human

NiAlternate names: carrier family 4, anion exchanger, member 1; erythroid anion exchange
Cippecies: Homo sapiens (man)
Cippecies: Homo sapiens (man)
Cippecies: John, Kbm; Kpötto, T39408; 139409; A92237; A26507; A92430; A90323; A28079; S05:
Rillar, S.E.; John, K.M.; Kpötto, R.R.; Lodish, H.F.
Proc. Natl. Acad. Sci. U.S.A. 86, 9089-9093, 1389
A;Title: Cloning and characterization of band 3, the human erythrocyte anion-exchange procession: A36218; MUID:90083213; PMID:2594752
A;Accession: A36218
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-911 <LUX
A;Coss-references: UNIPROT:P02730; GB:M27819; NID:g178215; PIDN:AAA35514.1; PID:g178216
B;Tooss-references: UNIPROT:P0230; GB:M27819; NID:318215; PIDN:AAA35514.1; PID:g178216
B;Tooss-references: UNIPROT:P030; GB:M27819; NID:323947
A;Residerence number: S03074; MUID:89134172; PMID:3223947

A;Accession: S03074 A;Molecule type: mRNA A;Residues: 1-55.'E',57-911 <TAN> A;Cross-references: EMBL:X12609; NID:g28713; PIDN:CAA31128.1; PID:g28714 R;Showe, L.C.; Ballantine, M.; Huebner, K.

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12:07:32

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Thu Sep

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A;Cross-references: GDB:119874; OMIM:109270
A;Map position: 17q21-17q22
C;Superfamily: band 3 anion transport protei
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534 YETFSKLIKIFQDH
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Best Local Similarity
Matches 9; Conserv
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                                                                                                                                 Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                  A; Accession: A49717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Accession: PC4403
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A Researce number: 174-16, 1387

A Researce number: 173-16, 1387

A Researce number: 173-16, 1880

A Researce number: 173-1880

A Researce number: 173-1
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A;Residues: 1-55,/E,75,65 <7AN2>
A;Note: sequence extracted from NCBI backbone (NCBIP:49829)
A;Note: sequence of a common polymorphic form designated band 3 Memphis
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R;Kang, D.; Okubo, K.; Hamasaki, N.; Kuroda, N.; Shiraki, H.
Chem. 267, 19211-19217, 1992
A;Title: A structural study of the membrane domain of band 3 by tryptic digestion. Confos A;Reference number: A44116; MUID:92406862; PMID:1527044
                                                                                                                                                                                                                                                                                                          A;Molecule type: protein
XResidues: 361-372;390-399;604-613;632-639;647-656;699-729;731-743;761-781;818-826 <KAN:
A;Experimental source: erythrocyte
A;Noce: sequence extracted from NCBI backbone (NCBIP:113819, NCBIP:113821, NCBIP:113823,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Note: a histidine residue essential for anion transport is suggested to be His-651, His R;Okubo, K.; Kang, D.; Hamasaki, N.; Jennings, M.L. Biol. Chem. 269, 1918-1926, 1994
A;Title: Red blood call band 3. Lysine 539 and lysine 851 react with the same H-2DIDS (4, A);Reference number: A49717; MUID:94124538; PMID:8294441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: protein
A;Residues: 427-436;479-519;538-540;559-566;809-817;825-841;849-857 <OKU>
A;Residues: 427-436;479-519;538-540;559-566;809-817;825-841;849-857 <OKU>
A;Note: Lya-539 and Lya-81 were shown to bind the same molecule of the anion transport 1
R;Hamasaki, N: Okubo, K.; Kuma, H.; Kang, D.; Yae, Y.
J. Biochem. 122, 577-585, 1997
A;Title: Proteolytic cleavage sites of band 3 protein in alkali-treated membranes: Fidely, A;Reference number: PC4403; MUID:98006310; PMID:9348087
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A,Molecule type: protein
A,Residues: 361-911 «HAM»
C,Comment: Band 3 is the major integral glycoprotein of the erythrocyte membrane. A dimen
C;Comment: Band 3 has at least two functional domains. Its integral domain mediates a 1:11
ing sites for cytoskeletal proteins, glycolytic enzymes, and hemoglobin.
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F;404-911/Region: anion antiporter
F;405-427/Domain: transmembrane #status predicted <TM01>
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C;Species: 22-Jul-1987 #sequence_revision 22-Jul-1987 #text_change 09-Jul-2004
C;Date: 22-Jul-1987 #sequence_revision 22-Jul-1987 #text_change 09-Jul-2004
C;Accession: A25314; A26086; I49524; B25104
R;Kopito, R.R.; Lodish, H.F.
Nature 316, 234-238, 1985
A;Title: Primary structure and transmembrane orientation of the murine anion exchange-pro
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F;435-457/Domain: transmembrane #status predicted <TM02>
F;459-479/Domain: transmembrane #status predicted <TM03>
F;491-607/Domain: transmembrane #status predicted <TM04>
F;522-542/Domain: transmembrane #status predicted <TM04>
F;568-588/Domain: transmembrane #status predicted <TM05>
F;668-542/Domain: transmembrane #status predicted <TM05>
F;608-624/Domain: transmembrane #status predicted <TM05>
F;608-604/Momain: transmembrane #status predicted <TM07>
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transmembrane #status predicted <TW09>
transmembrane #status predicted <TW10>
transmembrane #status predicted <TW11>
transmembrane #status predicted <TW11>
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transmembrane #status predicted <TM14>
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5; Mismatches
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GenCore version 5.1.6
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Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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seq length: 200000000
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Perfect score:
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Maximum DB
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Issued Patents AA:*

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2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
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Database

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US-09-248-796A-23619 US-09-348-652B-38 US-09-248-796A-19962 US-09-248-796A-19962 US-09-107-433-4855 US-09-107-433-4855 US-09-270-767-31164 US-09-270-767-31164 US-09-270-767-3125 US-09-270-767-3125 US-09-270-767-3125 US-09-270-767-3125 US-09-270-767-3125 US-09-270-767-3125 US-09-270-767-3125 US-09-270-767-3125 US-09-270-767-4144 US-09-270-767-4144 US-09-270-767-4144 US-09-270-767-4144 US-09-270-767-4144 US-09-270-767-4144 US-09-270-767-4144 US-09-270-767-4144 US-09-270-767-4144 US-09-270-767-4144	Marie nd Methods for E Defective Re and Crew LLP Eighth Floor Version #1.30
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2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	RESULT 1 US-08-405-647B-41 Sequence 41, Applicati Patent No. 1614262 GENERAL INFORMATION: APPLICANT: Sherman APPLICANT: Sholet, APPLICANT: Theveni TITLE OF INVENTION: TITLE OF INVENTION: TITLE OF SEQUENCES CORRESSONDENCE ADDR ADDRESSEE: Two Emba STREET: Two Emba CITY: San Franci STREET: Two Emba CITY: San Franci STREET: Two Emba STREET: Two Emba CITY: San Franci COUNTRY: USA ZIP: 94111-3834 ZIP: 9411-3834 ZIP:

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Query Match
100.0%; Score 50; DB 3; Length 58;
Best Local Similarity 64.3%; Pred. No. 0.085;
Matches 9; Conservative 5; Mismatches 0; Indels

US-08-405-647B-41

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Gaps

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Thu Sep

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Sequence 41, Application PC/TUS9603180

GENERAL INFORMATION:
GENERAL THE REGents of the University
APPLICANT: The Regents of the University
APPLICANT: OF California
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR REDUCING
TITLE OF INVENTION: ADHESIVENESS OF DEFECTIVE RED BLOOD CELLS
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Robbins, Berliner & Carson
STREET: 201 North Figueroa Street, Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: Shohet, Stephen B.
APPLICANT: Sherman, Irwin
APPLICANT: von Andrian, Ulrich
TITLE OF INVENTION: Methods for Enhancing Thrombolysis in a
TITLE OF INVENTION: Mammal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%; Score 50; DB 3; Length 58; 64.3%; Pred. No. 0.085; tive 5; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 94111-3834
COMPUTER READBLE FORM:
MEDIUM TYPE: FLOSDY disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PAtentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,499
FILING DATE: 05-DEC-1997
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEB: Townsend and Townsend and Crew LLI
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
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                                                                                                          Sequence 41, Application US/08985499 Patent No. 6191103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Hyman, Laurence J.
REGISTRATION NUMBER: 35,51
REFERENCE/DOCKET NUMBER: 0230
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEPAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 58 amino acids
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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Best Local Similarity 64.3
Matches 9; Conservative
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MOLECULE TYPE: peptide
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US-08-985-499-41
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US-09-489-039A-12495

Sequence 12495, Application US/09489039A

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES

FILE REFERENCE: 2709.2004001

CURRENT APPLICATION NUMBER: US/09/489,039A

CURRENT FILING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

LENGTH: 221

LENGTH: 221
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; Score 50; DB 5; Length 58;
Pred. No. 0.085;
5; Mismatches 0; Indels
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/03180
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 106, Application US/09893737
Patent No. 6822082
GENERAL INFORMATION:
APPLICANT: Sheppard, Paul O.
TITLE OF INVENTION: WAMMALIAN SECRETED PROTEINS;
TILE REPRENCE: 00-41
CURRENT APPLICATION NUMBER: US/09/893,737
CURRENT FILING DATE: 2001-06-28
PRIOR PILING DATE: 2000-06-30
                                                                                                           FILING DATE:
CLASSIFICATION:
ATTORNEY, AGENT INFORMATION:
NAME: Berliner, Robert
REGISTRATION NUMBER: 20,121
REFERENCE/DOCKET NUMBER: 5555-370
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 977-1003
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 58 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Klebsiella pneumoniae
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57 YRTLSALVNIFRSI 70
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                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 9; Conserv
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Matches 6; Conserv
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August 26, 2005, 16:09:55; Search time 160 Seconds (without alignments) 34.381 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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seq length: 200000000
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Perfect score:
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Maximum DB E
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cons AA:* 11/pubpaa/USO7_PUBCOMB.pep:* 11/pubpaa/PCT_NEW_PUB.pep;* 11/pubpaa/USO6_PUBCOMB.pep;* 11/pubpaa/USO7_NEW_PUB.pep;* 11/pubpaa/USO7_NEW_PUB.pep;* 11/pubpaa/PCTUS_PUBCOMB.pep;* 11/pubpaa/PCTUS_PUBCOMB.pep;* 11/pubpaa/USO8_NEW_PUB.pep;* 11/pubpaa/USO8_PUBCOMB.pep;* 11/pubpaa/USO8_PUBCOMB.pep;* 11/pubpaa/USO8_PUBCOMB.pep;*	ごせせ	TTTT	
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Published Applications AA:* cgn2 6/ptodata/1/pubpaa	•		
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Description	į	Sequence 5, Appli	Sequence 6, Appli	Sequence 2, Appli	9	Sequence 8, Appli	Sequence 3, Appli	Sequence 500, App	Sequence 90, Appl	Sequence 1, Appli	Sequence 90, Appl	Sequence 4, Appli
	ID		US-10-663-215-5	US-10-663-215-6	US-10-066-320-2	US-10-087-464-6	US-10-087-464-8	US-10-408-765A-3	US-10-408-765A-500	US-10-643-795A-90	US-10-663-215-1	US-10-948-518-90	US-10-128-202-4
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Sequence 3, Appli Sequence 4, Appli Sequence 7, Appli		Sequence 10, Appl Sequence 11, Appl Sequence 12, Appl	μ. 4.	8 Sequence 252	Sequence	Sequence 166, App	Sequence				Sequence 106, App	Sequence 17, Appl						Sequence 14538	Sequence 31389	Sequence	s Sequence	7 Sequence 39247,	Sequence	Sequence 68137,	Semionro 42004
sn us us	-10-663-215 -10-663-215	US-10-663-215-1 US-10-663-215-1 US-10-663-215-1	US-10-663-2	US-10-425-115-2 US-10-437-963-1	US-10-369-493-	SD	US-10-437-963-1	US-10-437-	US-10-282-122	US-10-282-	09-893-737-	US-10-663-215-1	US-10-424-599-177	US-10-424-599-2	US-10-424-	US-10-424-599-		US-10-424-599-1	ns	nS	US-10-425-115-	US-10-425-114-	US-10-425-114-503	US-10-425-114-6	US-10-425-114-43004
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ALIGNMENTS

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Sequence 5, Application US/10663215

Sequence 5, Application US/10663215

Publication No. US20050059588A1

GENERAL INFORMATION:
APPLICANT: Sherman, Irwin
APPLICANT: Sherman, Irwin
APPLICANT: Winograd, Enrique
TITLE OF INVENTION: Peptides Which Generate Antibodies Resulting in Lysis
TITLE OF INVENTION: OF Pathologically Adherent Erythrocytes
TITLE REFERENCE: 023070-140500US
CURRENT FILING DATE: 2003-09-15
CURRENT FILING DATE: 2003-09-15
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OTHER INFORMATION: Description of Artificial Sequence:preferred OTHER INFORMATION: native AEI sequence, peptide including two OTHER INFORMATION: residues on either side of predicted alpha-helix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
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                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
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Best Local Similarity 64.3
Matches 9; Conservative
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RESULT 6
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WS-10-163-215-6

Sequence 6, Application US/10663215

Publication No. US20050059588A1

Sequence 6, Application US/10663215

Publication No. US20050059588A1

SENBEAL INFORMATION:

APPLICANT: Winograd, Enrique

APPLICANT: Winograd, Enrique

TITLE OF INVENTION: Peptides Which Generate Antibodies Resulting in Lysis

TITLE OF INVENTION: of Pathologically Adherent Erythrocytes

TITLE OF INVENTION: of Pathologically Adherent Erythrocytes

CURRENT APPLICATION NUMBER: US/10/663,215

NUMBER OF SEQ ID NOS: 23

SOFTWARE PATHOLOGY 23

SOFTWARE PATHOLOGY 21

SEQ ID NO 6

LENGTH: 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                       OTHER INFORMATION: Description of Artificial Sequence:peptide mimic OTHER INFORMATION: when used as antigen raises antibodies which bind OTHER INFORMATION: to and cause destruction of pathologically OTHER INFORMATION: adherent erythrocytes

FRATURE:

NAME/KEY: MOD RES

LOCATION: (1) ... (14)

OTHER INFORMATION: Xaa = amino acid charged under physiological
US-10-663-215-6
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Sequence 2, Application US/10066320

Publication No. US2003002267A1

GENERAL INFORMATION:
APPLICANT: Stanler, Jonathan S.
APPLICANT: Stanler, Jonathan S.
APPLICANT: Stanler, Jonathan S.
TITLE OF INVENTION: Effects of Hemoglobin
TITLE OF INVENTION: Effects of Hemoglobin
FILE REFERENCE: 1818.1030-003

CURRENT APPLICATION NUMBER: US/10/066,320

CURRENT FILING DATE: 2002-01-31

PRIOR APPLICATION NUMBER: PCT/US00/21101

PRIOR APPLICATION NUMBER: US60/146,680

NUMBER OF SEQ ID NOS: 4

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 2

LENGTH: 911
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5; Mismatches
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ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 64.3%;
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534 YETFSKLIKIFQDH 547
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Matches 14; Conservative
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ORGANISM: Homo sapiens
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Matches 9; Conserv
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US-10-066-320-2
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Sequence 8, Application US/10087464
; Sequence 8, Application US/10087464
; Publication No. US20030059436A1
; Publication No. US20030059436A1
; GENERAL INFORMATION:
 APPLICANT: Chisht, Athar
 APPLICANT: Chisht, Athar
 APPLICANT: Liu, David
 APPLICANT: Liu, David
 APPLICANT: Liu, Nuese
 APPLICANT: Li, Xuerons
 PRICANT: Li, Xuerons
 PRICANT: Ling David
 CURRENT FILING DAVIE: 2002-03-01
 PRICANT: LING DAVIE: 2002-03-01
 PRICANT: RILING DAVIE: 2002-03-01
 PRICANT: RILING DAVIE: 2002-03-01
 NUMBER OF SEQ ID NOS: 59
 SOFTWARE: PatentIn version 3.0
 LENGTH OR APPLICANT: Oh, Steven
APPLICANT: Oh, Steven
APPLICANT: Oh, Steven
APPLICANT: Liu, David
APPLICANT: Goal, Valoas
APPLICANT: Li Xuerong
TITLE OF INVENTION: Band 3 Antigenic Peptides, Malaria Polypeptides and Uses Thereof
FILE REFERENCE: \$1237/7019
CURRENT APPLICATION NUMBER: US/10/087,464
CURRENT FILING DATE: 2002-03-01
PRIOR FILING DATE: 2001-03-02
NUMBER OF SEQ ID NOS: 59
SOFTWARE: Patentin version 3.0
SEQ ID NO 6
LENGTH: 911 ö ö Gaps ö ö Query Match 100.0%; Score 50; DB 14; Length 911; Best Local Similarity 64.3%; Pred. No. 18; Matches 9; Conservative 5; Mismatches 0; Indels C Score 50; DB 14; Length 911; Pred. No. 18; 5; Mismatches 0; Indels (US-10-408-765A-3
; Sequence 3, Application US/10408765A
; Publication No. US20040101874A1
; PUBLICATION:
; APPLICANT: Ghosh, Soumitra S. Sequence 6, Application US/10087464 Publication No. US20030059436A1 5, 100.0%; Publication No. US20030059436Al GENERAL INFORMATION: APPLICANT: Chishti, Athar 64.38; |:|||:||:||: 534 YETFSKLIKIFQDH 547 |:|||:||:||:: 534 YETFSKLIKIFQDH 547 1 YXTFSXLIXIFQXX 14 1 YXTFSXLIXIFQXX 14 Best Local Similarity 64.3 Matches 9; Conservative TYPE: PRT ORGANISM: Homo sapiens ORGANISM: Homo sapiens RESULT 4 US-10-087-464-6 US-10-087-464-6 US-10-087-464-8 US-10-087-464-8 TYPE: PRT Query Match

5.1.6 Compugen Ltd. GenCore version Copyright (c) 1993 - 2005

OM protein - protein search, using sw model

August 26, 2005, 16:00:08; Search time 159 Seconds (without alignments) 34.054 Million cell updates/sec Run on:

US-10-663-215-6 14 Title: Perfect score:

1 YXTFSXLIXIFQXX 14 Sequence:

Gapop 60.0 , Gapext 60.0 OLIGODX Scoring table:

2105692 seqs, 386760381 residues Searched:

0 Word size :

343861 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 14 Maximum DB seq length: 40

Post-processing: Listing first 45 summaries

geneseqp1980s:*
geneseqp1990s:*
geneseqp2000s:*
geneseqp2001s:*
geneseqp2002s:*
geneseqp2003as:* A_Geneseq_16Dec04:* 1: genesecn1980r.1 geneseqp2004s:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

STIMMARTES

	lon	Aged band	Anion tra	Band 3 pr	Human pro	Human sph	Aged band	AlemL pro	Human bra	GPV tande	CAPI-19 t	Human ADP	Variant h	Human 5'	Human sec	Human zin	Cav chann	Human lun	CFTR prot	Human gen	Human col	Human alb	Human bre	Albumin f	N. gonorr	Human Fbx
	Description	Aaw18597	Aaw01065	Aab74851	Abj04861	Aab97256	Aaw18601	Aar71942	Aam65375	Aar71296	Aae25490	Abg67766	Aay34145	Aay12714	Aab63091	Abo12200	Abb82732	Adb67823	Aa016565	Aae01291	Aag77413	Abg63767	Abr63700	Ad177032	Abp80600	Abb81125
		t t t t t t																								
SUMMAKIES	10	AAW18597	AAW01065	AAB74851	ABJ04861	AAB97256	AAW18601	AAR71942	AAM65375	AAR71296	AAE25490	ABG67766	AAY34145	AAY12714	AAB63091	ABO12200	ABB82732	ADB67823	AA016565	AAE01291	AAG77413	ABG63767	ABR63700	ADL77032	ABP80600	ABB81125
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	Query Match Length	17	15	15	31	15	16	18	20	24	14	14	16	18	22	23	27	27	30	35	35	35	35	35	36	37
*	Query Match	71.4	64.3	64.3	64.3	57.1	57.1	57.1	57.1	57.1	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
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ABU01204 AAM96316 AAR49466	AAW42046 AAY23256 AAY23259 AAY23257	AAY23258 AAY3321 AAW73351 AAB07379	AAB26709 AAM97055 AAM98601 AAG98010	AAG79480 ABG61488 ABU51128 AAE21884	ABB05528
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ALIGNMENTS

AAW18597 standard; peptide; 17 AA.

AAW18597;

(first entry) 04-MAR-1998 Aged band 3 peptide (residues 538-554) epitope IV.

Band 3 protein; antibody; aging antigenic site; Alzheimer's disease; phosphorylation; detection; epitope.

Homo sapiens.

WO9726537-A1.

24-JUL-1997.

96WO-US020465. 13-DEC-1996; 96US-0010250P. 19-JAN-1996; (RESE) RESEARCH CORP TECHNOLOGIES INC.

Kay MMB;

WPI; 1997-385478/35.

Detecting Alzheimer's disease using antibody that recognises aged band 3 protein in tissues - or from reduced degree of band 3 protein phosphorylation, can be applied to blood or brain samples.

Claim 10; Page 10; 45pp; English.

This is an aging antigenic band 3 peptide (residues 518-554) to which a specific antibody can bind to. Band 3 is a ubiquitous anion-exchange protein and ages as cells and tissues age. Antibodies have been developed against this aged band 3. These antibodies bind to distinct regions of band 3 in old cells (aging antigenic sites) but not middle aged or young cells. This can be used for detecting Alzheimer's disease. A tissue sample containing band 3 from a patient suspected of having Alzheimer's disease is treated with an antibody that can differentiate between the Alzheimer's (aged) and normal band 3, under complex-forming conditions and detecting any complex formed. A tissue containing band 3 from a healthy control is treated in a similar manner and the amounts of complex formed are compared. A significantly greater formation of complex in the suspect sample as compared with that of the control is indicative of

Length 15;

DB 2;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  the anion transporter band 3 protein. The band 3 protein is present in a million copies per red blood cell, in the form of monomers, dimers, or tetramers. Band 3 protein has two distinct domains, a 43 kb water-soluble cycoplasmic domain, and a 55 kb membrane spanning domain. In an number of cycoplasmic domain, and a 55 kb membrane spanning domain. In an number of cycoplasmic domain, and 3, such that there is clustering and a change in the conformation of the protein. Due to this change in protein the conformation (and by the exposure of cryptic adhesive sites), the conformation (and by the exposure of cryptic adhesive sites), the conformation adhesiveness. These sequences were found in the putative conformation adhesiveness. These sequences were found in the putative exofacial loops of band 3, and are epitopes for antibody binding. These sequences compete with the altered band 3 protein, and thereby block the adhesiveness of the red blood cells. The peptides can be used for reducing the adhesiveness of red blood cells in a mammalian patient characterised by a condition selected from Plasmodium falciparum infection, sickle cell disease, thalassaemia and diabetes
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        degrees of phosphorylation of band 3 or its degradation products in suspect and control samples. A significant decrease in phosphorylation in the suspect sample indicates Alzheimer's disease
                                                                                                                                                                                                                                                                                                                                            Anion transporter band 3 protein; endothelial adhesion; red blood cell; cytoplasmic domain; erythrocyte; exofacial loop; epitope; antibody; mammal; plasmodium falciparum infection; sickle cell disease; diabetes; band 3; thalasasemia; anaemia; therapy.
can also be detected by comparing the
                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Peptide(s) with amino acid motifs in band 3 - used for reducing the adhesiveness of red blood cells for treating malaria, sickle cell
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                                                                                            DB 2; Length 17;
                                                                                                                    0; Indels
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                                                                                                                                                                                                                                                                                                                      Anion transporter band 3 protein residues 539-553.
                                                                                                     0.3;
                                                                                          Score 10; DB;
Pred. No. 0.3;
4; Mismatches
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                                                                                                                                                                                                                                         AAW01065 standard; peptide; 15 AA.
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 The disease
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                                                                                            71.4%;
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                                                                                                                    6; Conservative
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SKLIKIFQDH 10
 Alzheimer's disease.
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                                                                                            Query Match
Best Local Similarity
                                                                 Sequence 17 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                         WO9629086-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                 Synthetic
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                                                                                                                      Matches
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The present invention describes a method for enhancing thrombolysis in a mammal. The method comprises the administration to the mammal an amount of an inhibitor (I) of protein band 3-ligand interaction sufficient to enhance thrombolysis. (I) has thrombolytic activity. The method is useful for enhancing thrombolytic activity, in the management of acute myocardial infarction, for 19sis of intracoronary thrombi, for improvement of ventricular function, for reduction of congestive heart failure, for reduction of mortality, for the lysis of pulmonary emboli blocking blood flow to one or more lobes of the lung, for the lysis of blocking blood flow to one or more lobes of the lung, for the lysis of cute arterial thrombosis and embolism, for the lysis of thrombosis in deep veins or in cerebral sinuses, to reopen i.v. catherers obstructed by clotted blood or fibrin, to prevent clot formation of lysing clots, to prevent clotting in blood samples draw from patients for clinical testing and to prevent the recurrence of thrombosis in patients by prophylactic administration. The present sequence represents a band 3 proceed that the contraction of the present sequence represents a band 3 proceed the contraction of the present sequence represents a band in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Anti-Plasmodium falciparum; interaction inhibitor; band 3 protein; thrombolysis; thrombolytic; fibrinolytic; acute myocardial infarction; lysis; ventricular function; congestive heart failure; mortality; acute arterial thrombosis; embolism; thrombosis; cerebral sinus.
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Pred. No. 2;
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4; Mismatches
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   Score 9;
Pred. No.
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                                                                                                                                                                                                                                                                                                                           AAB74851 standard; peptide; 15 AA
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64.3%;
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                                                               5; Conservative
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Thu Sep 1 12:07:31 2005

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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OM protein - protein search, using sw model

Run on:

August 26, 2005, 16:00:48; Search time 16 Seconds (without alignments) 84.190 Million cell updates/sec

US-10-663-215-6 14 Title: Perfect score:

1 YXTFSXLIXIFQXX 14 Sequence: OLIGODX Gapop 60.0 , Gapext 60.0 Scoring table:

283416 segs, 96216763 residues Searched:

Word size :

7379 Total number of hits satisfying chosen parameters:

Minimum DB seq length: 14 Maximum DB seq length: 40

Post-processing: Listing first 45 summaries

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:* Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

		di				
Result		Query	1	ć	4	1000
9	score	marcn	marcn rengrn	9	TD	Description
-	7	50.0	19	0	S01203	_
7	7	50.0	23	7	S00921	patatin (clone LPO
٣	7	50.0		7	D83717	hypothetical prote
4	7	50.0	37	7	C95094	hypothetical prote
Ŋ	9	42.9	15	7	PA0110	Φ
9	9	42.9	20	7	H22565	R-phycoerythrin ga
7	9	42.9	23	~	S13298	
ω	9	42.9	27	~	S78355	hypothetical prote
6	9	42.9	29	7	T52557	translation elonga
10	9	42.9	29	7	A55891	delta-conotoxin Gm
11	9	42.9	30	N	S14214	NADH2 dehydrogenas
12	9	42.9	30	7	S07065	rRNA N-glycosidase
13	9	42.9	30	~	B70165	hypothetical prote
14	9	42.9	30	~	B81956	
15	9	42.9	30	~	C71309	Д
16	9	42.9	32	7	C56649	c
17	9	42.9	32	~	B95081	hypothetical prote
18	9	42.9	33	7	G70254	hypothetical prote
19	9	42.9	33	7	D64543	
	9	42.9	33	N	C82312	
	9	42.9	34	~	G82502	hypothetical prote
	φ	42.9	35	~	AH1838	cytochrome c6 (imp
	9	42.9	37	~	S03674	photosystem I prot
24	9	42.9	38	~	D90631	hypothetical prote
25	9	42.9	38	N	G81904	thetical
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27	9	42.9	39	~	A81151	
28	9	42.9	40	~	805686	_
29	9	42.9	40	7	AH2446	

|:||:|| 6 SFLILIF 12 5 SXLIXIF 11

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H+-transporting tw T-call receptor al integration host f cellulase (BC 3.2. 23K protein 4307 - glutathione-disulf cytochrome P450m51 uvsX protein - pha phycobiliprotein 1 photosystem I chai	annexin 36K chain cytochrome P450 h- cytochrome P450-th pigment-dispersing beta-pigment-dispe proteasome endopep
G33160 PH0782 PN0629 A60156 PS0450 S62609 B60566 S35627 S09700	A26393 PN0659 A61268 DRUFPD A45590 PC2326
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4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	16 16 18 18 19
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### ALIGNMENTS

RESULT 1 S01203 patatin (clone LPOT2) - potato (fragment)
C;Species: Solanum tuberosum (potato) C;Date: 31-Dec-1990 #sequence_revision 31-Dec-1990 #text_change 09-Jul-2004 C;Accession: S01203
Mol. Genet. 212, 325-336, 1988 A;Title: Structural diversity of the patatin gene family in potato cv. Desiree. A;Reference number: S00921; MUID:88302122; PMID:2841572
A;Accession: S01203 A;Status: translation not shown A;Attus: translation not shown A;Molecule type: DNA A;Residues: 1-19 <twe> A;Residues: 1-19 <twe> A;Cross-references: UNIPROT:Q41466; EMBL:X07032; NID:g21506; PIDN:CAA30081.1; PID:g57948 C;Sunerfamily: natatin</twe></twe>
Query Match 50.0%; Score 7; DB 2; Length 19; Best Local Similarity 71.4%; Pred. No. 74; Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
Qy 5 SXLIXIF 11  :  :     6 SPLILIF 12
 RESULT 2 S00921 patatin (clone LPOT6) - potato (fragment) C;Species: Solanum tuberosum (potato) C;Date: 31-Dec-1990 #sequence revision 31-Dec-1990 #text_change 09-Jul-2004
C;Accession: S00921 R;Twall, D.; Ooms, D.; D.; Ooms, D.;
A;Status: translation not shown A;Molecule type: DNA A;Residues: 1-23 <twe> A;Residues: 1-23 <twe> A;Cross-references: UNIPROT:Q41464; EMBL:X07029 C;Genetics: A;Start codon: GTG C;Superfamily: patatin</twe></twe>
 Query Match Best Local Similarity 71.4%; Pred. No. 87; Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

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C, Accession: S78355
R; Kowallik, K.V.; Stoebe, B.; Schaffran, I.; Kroth-Pancic, P.; Freier, U.
Balant Nol. Biol. Rep. 13, 336-342, 1995
A; Title: The Chloroplast Genome of a chlorophyll a+c- containing Alga, Odontella sinensi A; Reference number: S78238
A; Accession: S78355
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     benzaldehyde dehydrogenase (EC 1.2.1.-) I - Acinetobacter calcoaceticus (fragment)
C;Species: Acinetobacter calcoaceticus
C;Date: 22-Jan-1993 #sequence_revision 22-Jan-1993 #text_change 17-Mar-1999
                                                                                                                                                                                                                                                                                                                                                                       R-phycoerythrin gamma-C chain - red alga (Gastroclonium coulteri) (fragment)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     hypothetical protein 27 - Odontella sinensis chloroplast
C,Species: chloroplast Odontella sinensis
C,Date: 17-Feb-1998 #sequence_revision 26-Feb-1998 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                               C;Spécies: Gastróclonium coulteri
C;Date: 07-Mar-1988 #sequence_revision 07-Mar-1988 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                    C,Accession: H22565
R;Alorz, A.V.; Glazer, A.N.
J; Biol. Chem. 260, 48150-4863, 1985
A;Title: Characterization of the bilin attachment sites in R-phycoerythrin. A;Reference number: A22565; MUID:85182601; PMID:3886644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Molecule type: protein
A;Residues: 1-20 <4XLO>
A;Cross-references: UNIPROT:07M270
C;Superfamily: Aglaothamnion neglectum R-phycoerythrin gamma chain 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 42.9%; Score 6; DB 2; Length 20; Best Local Similarity 50.0%; Pred. No. 4.7e+02; Matches 3; Conservative 3; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     42.9%; Score 6; DB 2; Length 23; 50.0%; Pred. No. 5.3e+02; Ative 3; Mismatches 0; Indels
                                                  42.9%; Score 6; DB 2; Length 15; 66.7%; Pred. No. 3.7e+02; ive 2; Mismatches 0; Indels
A; Cross-references: UNIPROT: Q9SCX3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Experimental source: NCIB 8250
C; Keywords: oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3; Conservative
                                                                                                                4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Molecule type: protein A; Residues: 1-23 < CHA>
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Best Local Similarity
                                                                             Best Local Similarity
Matches 4; Conserv
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HIFQGT 20
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2 VTFSDL 7
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                                                           Query Match
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C95094
hypothetical protein SP0815 [imported] - Streptococcus pneumoniae (strain TIGR4)
C;Spociae; Streptococcus pneumoniae
C;Date: 03-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 09-Jul-2004
C;Date: 01-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 09-Jul-2004
C;Accession: C95094
C;Canterinental source: Strain TIGR4
C;Genetics: A,Accession: C95091
C;Genetics: A,Genetics: C970815
                                               RESULT 3

D83717

hypothetical protein BH0540 [imported] - Bacillus halodurans (strain C-125)

C;Species: Bacillus halodurans
C;Species: Bacillus halodurans
C;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004
C;Accession: B33117
R;Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fuji, F.; Hira
Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and
A;Reference number: A83650; MUID:20512582; PMID:11058132
A;Accession: D83717
A;Accession: D83717
A;Accession: D83717
A;Molecule type: DNA
A;Residues: 1-24 <STO>
A;Cross-references: UNIPROT:Q9KFE1; GB:AP001508; GB:BA000004; NID:g10172890; PIDN:BAB042
A;Experimental source: strain C-125
C;Genetics: A;Genetics:
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Pred. No. 90;
2; Mismatches 0; Indels
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71.4%;
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Best Local Similarity 71.4
Matches 5, Conservative
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SLLILIF 11
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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

- protein search, using sw model OM protein August 26, 2005, 15:57:13 ; Search time 53 Seconds (without alignments) 135.266 Million cell updates/sec Run on:

US-10-663-215-6 Title:

Perfect score:

1 YXTFSXLIXIFQXX 14 Sequence:

Scoring table:

OLIGODX Gapop 60.0 , Gapext 60.0

1612378 seqs, 512079187 residues Searched:

0

Word size :

Total number of hits satisfying chosen parameters:

41659

seq length: 14 seq length: 40 Minimum DB Maximum DB

summaries Post-processing: Listing first 45

UniProt_03:* Database

1: uniprot_sprot:*
2: uniprot_trembl:*

SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Gaps

; 0

0; Indels Length 20

Score 8; DB 2; Pred. No. 91; 3; Mismatches

h Similarity 62.5%; 5; Conservative

Query Match Best Local Similarity

Best Loc Matches

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solanum tub bacillus ha methanosarc staphylococ homo sapien gastrocloni arabidopsis tb capra hircu bacillus ce cucumis sat coxiella bu homo sapien cooperia on siraitia gr homo sapien 29nz27 homo sapien streptococc mild cooperia on solanum tub phalacrocor solanum tub plasmodium eptospira leptospira neurospora plasmodium solanum solanum solanum barley Description Q41468 Q41469 Q41464 Q9kfel 099795 083598 097717 08f819 08f466 08num3 Q71u72 Q41470 Q9nz28 Q7rpn2 Q7m270 Q9fph8 P83065 Q41466 Q41471 Q7rt34 Q712k9 Q733p7 Q9ucc4 P90290 07yat7 Q9uxr3 Q7y834 P83323 Q7Y834 Q7YAT7 RIP SIRGR Q71U72 Q7M270 Q9FPH8 P83065 099AYQ5 083BA8 097RJ7 08F819 08F466 08NUM3 07S4U5 Q41470 Q9NZ28 Q7RT34 Q712K9 Q733P7 1468 1466 241469 1464 Q9UXR3 DB Query Match Length Score Result Š

morphology?"; Mol. Phylogenet. Evol. 17:345-359(2000). -!- FUNCTION: This is one of the chains of the nonenzymatic component (CF(0) subunit) of the mitochondrial ATPase complex (By

bacillus ce

MEDLINE-20575768; PubMed=11133189; DOI=10.1006/mpev.2000.0840; Kennedy M., Gray R.D., Spencer H.G.; "The phylogenetic relationships of the shags and cormorants: can sequence data resolve a disagreement between behavior and

SEQUENCE FROM N.A. NCBI_TaxID=146619;

Phalacrocorax

Mitochondrion. Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Archosauria, Aves, Neognathae, Pelecaniformes, Phalacrocoracidae,

Last sequence update) Last annotation update)

01-JUN-2001 (TrEMBLrel. 17, 01-JUN-2003 (TrEMBLrel. 24, ATPase 8 (Fragment). 01-JUN-2001 (TrEMBLrel. 17,

Phalacrocorax purpurascens

Created) PRT;

38 AA.

PRELIMINARY;

29B797

Q9B797

RESULT 2 **09B797** 

Q9fsa2 silene foet O31349 bacillus ce Q84172 orf virus. P46365 acinetobact O96tk6 cryptococcu Q8i7a6 penaeus van Q8i7a7 litopenaeus Q8i7a8 litopenaeus Q8i7a8 litopenaeus Q8i7b1 farfantepen Q7jpud drosophila Q9bm17 trochodendr O49748 arabidopsis Q9bm15 drosophila				; Euteleostomi; e; Homo.	L.; databases. CRC64;
Q9FSA2 031349 084172 XYC1_ACIGB Q9ETK6 Q8I7A6 Q8I7A8 Q8I7A8 Q8I7A8 Q8I7A8 Q6JVPU0 Q9JVPU0 Q6JWP4 Q6JWP4	ALIGNMENTS		Created) Last sequence update) Last annotation update)	a; Craniata; Vertebrata; Butel 8; Catarrhini; Hominidae; Homo	X., Lin M.T., Fang EMBL/GenBank/DDBJ
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<b>୰</b> ୰୰୰୰୰୰୰୰୰୰୰୰୰		1 9NZ27 9NZ27;	2000 2000 2000 7000	Homo sapiens (Human). Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates; NCBI TaxID=9606;	SEQUENCE FROM N.A. Wu Z.Y., Wang N., MuRong S.: Submitted (DEC-1999) to the EMBL; AF220213; AAF67659.1; NON TER 20 20 NON_TER 20 20 SEQUENCE 20 AA; 2365 MW;
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Patatin (Fragment).
Solanum tuberosum (Potato).
Bukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, eudicotyledons; core eudicots; asterids;
lamiids, Solanales, Solanaceae, Solanum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-NOV-1996 (TrEMBLrel. 19, Last annotation update)
01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
Potato patatin (Fragment).
Solanum tuberosum (Potato).
Solanum tuberosum (Potato).
Solanum tuberosum (Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids; lamiids; Solanales; Solanaceae; Solanum.
       Bukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots, asterids,
lamiids, Solanales, Solanaceae, Solanum.
                                                                                                                                                                                                                  MEDLINE=88226014; PubMed=3371664; DOI=10.1016/0378-1119(88)90577-X; Mignery G.A., Pikaard C.S., Park W.D.; "Molecular characterization of the patatin multigene family of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Twell D., Ooms G.; "Structural diversity of the patatin gene family in potato cv.
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                                                                                                                                                                                                                                                                                                                                   potato.";
Gene 62:27-44(1988).
EMBL, M18885; AAA33833.1; -.
NON TER 19 19
SEQÜENCE 19 AA; 2103 MW; AB632E1FCDB8D17E CRC64;
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EMBL, M37223; AAA33821.1; -
NON_TER 20 20
SEQÜENCE 20 AA; 2222 MW; 3C5F732E1FCDBE11 CRC64;
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01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-NOV-1998 (TrEMBLrel. 08, Last annotation update)
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MEDLINE=88302122; PubMed=2841572;
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nes 5; Conservative
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SFLILIF 12
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SFLILIF 12
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similarity).

C -1-CATALITIC ACTIVITY: ATP + H(2)O + H(+)(In) = ADP + phosphate + H(+)(Out).

H(+)(Out).

C -1-SUBCELDUIAR LOCATION: Membrane-bound (By similarity).

-1-SIMILARITY: Belongs to the ATPase protein 8 family.

SR EMBL; AX093158; AAG$2926.1; -.

SR GO; GO:0005739; C:mitochondrion; IEA.

GO; GO:0006739; C:mitochondrion; IEA.

GO; GO:0046931; F:hydrogen-transporting ATP synthase activity. . .; IEA.

GO; GO:0046931; F:hydrogen-transporting ATP synthase activity. rota. . .; IEA.

GO; GO:0006811; P:hydrogen-transporting ATP synthase activity. rota. . .; IEA.

GO; GO:0006811; P:hydrogen-transporting ATP synthase activity. rota. . .; IEA.

GO; GO:0015992; P:hydrogen-transporting ATP synthase activity. rota. . .; IEA.

GO; GO:0015992; P:proton transport; IEA.

GO; GO:0015992; P:proton transport; IEA.

GO; GO:0016995; ATP-synte.8; 1.

KW GF(0); Hydrogen ion transport; Ion transport; Mitochondrion;

M. Transmembrane; Transport.
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Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots; asterids,
lamiids, Solanales, Solanaceae, Solanum.
NCBI_TaxID=4113;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   57.1%; Score 8; DB 2; Length 38; 62.5%; Pred. No. 1.6e+02; ive 3; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       041466 PRELIMINARY; PRT; 19 AA. 041466; CTEMBLED. 01, Created) 01-NOV-1996 (TrEMBLED. 01, Last sequence update) 01-NOV-2003 (TrEMBLED. 24, Last annotation update) Potato class II patatin gene (LPOT2) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q41471 PRELIMINARY; PRT; 19 AA.
01471;
01-100-1996 (TrEWBLrel. 01, Created)
01-NOV-1996 (TrEWBLrel. 01, Last sequence update)
01-DEC-2001 (TrEWBLrel. 19, Last annotation update)
Potato patatin class II (Fragment).
solanum tuberosum (Potato).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Desiree.";
Mol. Gen. Genet. 212:325-336(1988).
EMBL; X07032; CAA30081.1; -.
PIR; S01203; S01203.
NON TER 19 19
SEQÜENCE 19 AA; 2135 MW; AF732E
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MEDLINE=88302122; PubMed=2841572;
Twell D., Ooms G.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Solanum tuberosum (Potato).
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Best Local Similarity 62.5°,
Elea 5; Conservative
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                                                                                                                                                                                              August 26, 2005, 16:01:39; Search time 21 Seconds (without alignments) 49.766 Million cell updates/sec
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1: /cgn2_6/ptodata/1/laa/5A_COMB.pep:*
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3: /cgn2_6/ptodata/1/laa/6A_COMB.pep:*
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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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US-08-195-506-23
US-09-336-6434-23
US-09-270-767-62060
US-08-997-685A-42
US-09-270-767-46476
US-09-270-767-46476
US-09-270-767-4685
US-09-270-767-55092
US-09-270-767-56101
US-09-270-767-56101
US-08-488-379-176
US-08-488-379-176
US-08-648-322-24
US-09-193-363-109
US-08-648-322-24
US-09-193-109
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US-08-985-499-8
PCT-US96-03180-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     513545 segs, 74649064 residues
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                                                                                                                             protein search, using sw model
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Gapop 60.0 , Gapext 60.0
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Match Length
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Perfect score:
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	ALIGRALICS Jean-h Jean-	Score 9; Pred. No. 1; Mismato	
US-09-581-153-1 US-09-581-153-4 US-09-581-153-4 US-09-581-153-5 US-09-581-153-12 US-09-581-153-12 US-09-581-153-13 US-09-581-153-18 US-09-581-153-18 US-09-581-153-19 US-09-581-153-18 US-09-581-153-19 US-09-69-4378-26 US-09-766-39-176 US-09-766-39-176 US-09-277-6608-1 US-08-277-6608-1	ALIGN SULT 1  -08-405-647B-8  Sequence 8, Application US/08405647B  Sequence 8, Application US/08405647B  Sequence 8, Application US/08405647B  Sequence 8, Application US/08405647B  Papelicant: Crandall, Ian E. APPLICANT: Sholet, Stephen B. TITLE OF INVENTION: Compositions ar TITLE OF INVENTION: Adhesiveness of NUMBER OF SEQUENCES: SO CORRESPONDENCE ADDRESS: ADDRESSEE: Townsend and Townsend STREET: Two Enbarcadero Center, ECTTY: San Francisco STAME: Colfornia COUNTRY: USA ZIP: 94111-3834  COUNTRY: USA ZIP: 94111-3834  COMPUTER READABLE FORM: MEDIUM TYPE: PADPLY GING CONFUTER: IBM PC Compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PAPENICATION DATA: APPLICATION NUMBER: 31,677  FILING DATE: 17-MAR-1995  CLASSIFICATION NUMBER: 31,677  RECISTRATION NUMBER: 31,677  RECISTRATION NUMBER: 31,677  RELEPAN: (415) 576-0200  INFORMATION FOR SEQ ID NO: 8: SEQUENCE CHARACTERISTICS: LEBEPAN: EMINO acide TYPE: amino acide TYPE: poptide TOWNORMATION TYPE: peptide	Scc Pre 4;	
<b> </b>	US/0840  Irwin W Irwin W Stephan Bernar Composi Bernar Adhesivo SS: Composi SS: Composi NA: Composi SA: Composi SA	4.3%; 5.6%; ve	
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	B-8 Application U 612452 TT: Sherman, I TT: Sherman, I TT: Sheler, Sholer, Sho	ty erva	XX ::
	in the control of the	n Similarity 5; Conserv	XLIXIFQXX :  :   :
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<b>υνυυυυυυυυυυυυυυυ</b> υυ	-647B-8 e 8, Ap No. 612 ICANT:	ch 1 Si	¥ :
	ESULT 1  Sequence 8, Application US/0840564' Sequence 8, Application US/0840564' Sequence 8, Application US/0840564' Beaten No. 6124262. GENERAL INFORMATION: APPLICANT: Sherman, Irwin W. APPLICANT: Thevenin, Bernard JG TITLE OF INVENTION: Composition TITLE OF INVENTION: Adhesivenes NUMBER OF SEQUENCES: 50 CORRESPONDENCE ADDRESS: ADDRESSE: Townsend and Towns STATE: California COUNTRY: San Francisco STATE: California COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-I SOFTWARE PAPLICATION NUMBER: US/08/405 FILING DATE: 17-MAR-1995 CLASSIFICATION: 514 ATTORNEY/AGENT INFORMATION: NAME: Webber, Kenneth A. REGISTRATION NUMBER: 31,677 REFERENCE/DOCKET NUMBER: 31,677 RELECOMMUNICATION INFORMATION: TELEPAX: (415) 576-0200 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 15 amino acids TYPE: amino acids TYPE: amino acids TYPE: peptide S-008-405-6478-8	/ Match Local S	
00000000000000000000000000000000000000	ESULT 1 S-08-405 Sequenc Patent APPL APPL APPL APPL APPL APPL APPL APP	Query Ma Best Loc Matches	
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-09-688-307A-109 -08-857-389-24 US-08-475-399A-176 US-09-350-259-109

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APPLICANT: Of California
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR REDUCING
TITLE OF INVENTION: ADHESIVENESS OF DEFECTIVE RED BLOOD CELLS
NUMBER OF SEQUENCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Robbins, Berliner & Carbon
STREET: 201 North Figueroa Street, Suite 500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                              GENERAL INFORMATION:
APPLICANT: Shohet, Stephen B.
APPLICANT: Sherman, Irwin
APPLICANT: von Andrian, Ulrich
TITLE OF INVENTION: Methods for Enhancing Thrombolysis in a
TITLE OF INVENTION: Mammal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 15;
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                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
ODERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,499
FILING DATE: 05-DEC-1997
ATTOMEY/AGENT INFORMATION:
NAME: Hyman, Laurence J.
REGISTRATION NUMBER: 35,551
REFERENCE/DOCKET NUMBER: 35,551
RECISTRATION NUMBER: 35,551
RELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 amino acids
                                                                                                                                                                                                    NUMBER OF SEQUENCES: 45
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 9; DB 3;
Pred. No. 0.47;
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                Sequence 8, Application US/08985499 Patent No. 6191103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET: 201 North Figueroa CITY: Los Angeles STATE: California COUNTRY: USA ZIP: 90012-2628 COMPUTE: READABLE FORM: MEDIUM TYPE: Floppy disk
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55.6%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; MOLECULE TYPE: peptide US-08-985-499-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6 XLIXIFOXX 14
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Best Local Similarity
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US-08-985-499-8
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STATE:
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Gaps . 0 Squence 23, Application US/08592500
Fatent No. 6005089
GENERAL INFORMATION:
APPLICANT: Lanza, Francois
APPLICANT: Palilips, David R.
APPLICANT: Palilips, David R.
APPLICANT: Palilips, David R.
APPLICANT: Palilips, David R.
APPLICANT: Palelet Glycoprotein V Gene and Uses
NUMBER OF ENGUNCES: 43
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew 0; Indels Length 15; COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/03180
FILING DATE: ZIP: 94301
ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592,500 64.3%; Score 9; DB 5; 55.6%; Pred. No. 0.47; tive 4; Mismatches CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Berliner, Robert
REGISTRATION NUMBER: 20,121
REFERENCE/POCKET NUMBER: 5555:
TELECOMMUNICATION INFORMATION:
TELEFRAM: (213) 977-1001
TELEFRAM: (213) 977-1003
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS: STREET: 379 Lytton Avenue CITY: Palo Alto STATE: California COUNTRY: US LENGTH: 24 amino acids TYPE: amino acid 15 amino acids Query Match
Best Local Similarity 55.6
Matches 5; Conservative TOPOLOGY: unknown MOLECULE TYPE: peptide TOPOLOGY: linear MOLECULE TYPE: peptide 6 XLIXIFQXX 14 :||:|||:: 1 KLIKIFQKH 9 amino acid PCT-US96-03180-8 RESULT 4 US-08-592-500-23 LENGTH:

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Sequence

Sequence 335, App Sequence 40, Appl Sequence 40, Appl Sequence 20, Appl Sequence 194326, Sequence 194326, Sequence 11, Appl Sequence 11, Appl Sequence 11, Appl Sequence 1556, Appl Sequence 1556, Appl Sequence 246212, Sequence 246212, Sequence 246212, Sequence 246212, Sequence 2474, Appl Sequence 24, Appl Sequence 37, Appl Sequence 38, Appl Sequence 62, Appl

Scoring table:

Word size :

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Database :

Perfect score:

Sequence:

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Sequence 5, Application US/10663215

Publication No. US20050059588A1

GENERAL INFORMATION:

APPLICANT: Sherman, Irwin

APPLICANT: Winograd, Enrique

APPLICANT: The Regents of the University of California

APPLICANT: The Regents of the University of California

TITLE OF INVENTION: Peptaldes Which Generate Antibodies Resulting in Lysis

TITLE OF INVENTION: Of Pathologically Adherent Erythrocytes

FILE REFERENCE: 023070-140500US

CURRENT APPLICATION NUMBER: US/10/663,215

CURRENT PILING DATE: 2003-09-15

NUMBER OF SEQ ID NOS: 23

SOFTWARE: PatentIn Ver. 2.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: Description of Artificial Sequence:preferred OTHER INFORMATION: native AEI sequence, peptide including two OTHER INFORMATION: residues on either side of predicted alpha-helix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 14; DB 17; Length 14; 64.3%; Pred. No. 0.00047; ive 5; Mismatches 0; Indels
LENGTH: 14
TYPE: PRT
ORGANISM: Artificial Sequence
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YETFSKLIKIFQDH 14
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Matches 9; Conservative
   US-10-663-215-5
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Sequence 140, Appli
Sequence 140, App
Sequence 177158,
Sequence 15596,
Sequence 23, Appl
Sequence 23, Appl
Sequence 30, Appl
Sequence 30, Appl
Sequence 70, Appl
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                                                                                                        August 26, 2005, 16:04:24 ; Search time 57 Seconds (without alignments) 96.508 Million cell updates/sec
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1. (cgn2_6/prodata/1/pubpaa/US07 PUBCOMB. DED: *

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6. (cgn2_6/prodata/1/pubpaa/US10B_PUBCOMB. DED: *

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                    GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
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7 US-10-663-215-6

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5 US-10-424-599-177158

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5 US-10-437-99-23

6 US-10-425-115-303352

7 US-10-143-146-520

8 US-10-449-8294-30

1 US-10-121-746-79
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                                                                                                                                                                                                                                                                                                 1767149 segs, 392926209 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Published Applications AA:
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                                                                                  - protein search, using sw model
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Gapop 60.0 , Gapext 60.0
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                                   Copyright
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64.3
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Sequence

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264597

Score

Result No.

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APPLICANT: Reark, David R.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOWE-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR TITLE OF INVENTION: USER EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Acomica-X-1
CURRENT APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-03
PRIOR FILING DATE: 2000-02-04
PRIOR PLING DATE: 2000-06-03
PRIOR PLING DATE: 2000-06-03
PRIOR PLING DATE: 2000-06-03
PRIOR PLING DATE: 2000-09-07
PRIOR PLING DATE: 2000-09-27
PRIOR PLING DATE: 2000-09-27
PRIOR PLING DATE: 2001-01-30
                                                                                                                                                                    APPLICANT: La Rosa Thomas J
APPLICANT: La Rosa Thomas J
APPLICANT: La Rosa Thomas J
APPLICANT: Show Yihua
APPLICANT: Zhou Yihua
APPLICANT: Can Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21 (53223) B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
LENGTH: 37
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Clone ID: PAT_MRT3847_130991C.1.pep
US-10-424-599-177158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 9; DB 15;
Pred. No. 13;
3; Mismatches
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APPLICATION NUMBER: PCT/US01/00665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00663
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00662
                                                                                        ; Sequence 177158, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 46255, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
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ORGANISM: Glycine max
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                                                            JS-10-424-599-177158
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Publication No US20020127237A1
GENERAL INFORMATION:
APPLICANT: Salceda, Susana
APPLICANT: Macina, Roberto
APPLICANT: Cafferkey, Robert
APPLICANT: Cafferkey, Robert
APPLICANT: Liu, Chenghua
APPLICANT: Liu, Chenghua
TITLE OF INVENTION: Compositions and Methods Relating to Prostate Specific Genes and
FILE REFERENCE: DEX-0281
CURRENT APPLICATION NUMBER: US/10/001,879
CURRENT APPLICATION NUMBER: 60/252,188
PRIOR FILING DATE: 2000-11-20
PRIOR FILING DATE: 2000-11-21
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                                                                                                          APPLICANT: Sherman, Irwin
APPLICANT: Sherman, Irwin
APPLICANT: Winograd, Enrique
APPLICANT: Winograd, Enrique
APPLICANT: The Regents of the University of California
APPLICANT: The Regents of the University of California
TITLE OF INVENTION: Peptides Which Generate Antibodies Resulting in Lysis
TITLE OF INVENTION: of Pathologically Adherent Erythrocytes
TITLE OF INVENTION: of Pathologically Adherent Erythrocytes
CURRENT APPLICATION NUMBER: US/10/663,215
CURRENT FILING DATE: 2003-09-15
SOFTWARE: PATHOLOGY
LENGTHARE: PATHOLOGY
LENGTH: 14
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OTHER INFORMATION: Description of Artificial Sequence: peptide mimic OTHER INFORMATION: when used as antigen raises antibodies which bind OTHER INFORMATION: to and cause destruction of pathologically OTHER INFORMATION: adherent erythrocytes FRATURE:

NAME/KEY: MOD_RES

I COCATION: (1) ... (14)

OTHER INFORMATION: Canditions acid charged under physiological US-10-663-215-6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
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                              , Sequence 6, Application US/10663215
; Publication No. US20050059588A1
; GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Artificial Sequence
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SOFTWARE: Patentin version 3.1
SEQ ID NO 140
LENGTH: 31
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Best Local Similarity
Matches 14; Conserva
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Best Local Similarity
Matches 5; Conserv
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US-10-001-879-140
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US-10-001-879-140
US-10-663-215-6
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